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Set     Items   Description
S1          2   AU='GAWNE-CAIN A' OR AU='GAWNE-CAIN A P' OR AU='GAWNE-CAIN
              ADAM'
File 347:JAPIO Nov 1976-2003/Nov(Updated 040308)
         (c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Mar W02
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040318,UT=20040311
         (c) 2004 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200419
         (c) 2004  Thomson Derwent
```

1/5/1 **(Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO


07361324 **Image available**
DATABASE MANAGEMENT SYSTEM

PUB. NO.: 2002-229821 [JP 2002229821 A]
PUBLISHED: August 16, 2002 (20020816)
INVENTOR(s): **GAWNE-CAIN ADAM**
APPLICANT(s): GAWNE CAIN RESEARCH LTD
APPL. NO.: 2001-320213 [JP 2001320213]
FILED: October 18, 2001 (20011018)
PRIORITY: 00 200028311 [GB 200028311], GB (United Kingdom), November 21, 2000 (20001121)
INTL CLASS: G06F-012/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide a database management system capable of designating simply the previous state of the database.

SOLUTION: Parent data items (America, Spain; S* or the like) in records in the states of each database are correlated with dependent data items (Africa, Canada, France; France, Turkey or the like). Root data items (England; E* or the like) in the records are correlated with other data items in the records. By using the correlation, the root data item (E*) pertinent to the state of the database can be correlated with both the data items (S*, Turkey) and the data items (America, Africa, Canada, France) in the records in the state of the database before data correction processing. Hereby, the state of the database after database correction processing can be defined, and the data before and after the correction processing can be held, and the data before the correction can be acquired simply.



1/5/2 **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


014625952 **Image available**
WPI Acc No: 2002-446656/200248
XRPX Acc No: N02-351985
**Database management system determines state of database after modifying transactions, by relating determined root data item corresponding to that database state, to data items in record of database state**
Patent Assignee: GAWNE CAIN RES LTD (GAWN-N)
Inventor: **GAWNE-CAIN A ; GAWNE-CAIN A P**
Number of Countries: 003 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| GB 2369208 | A | 20020522 | GB 200028311 | A | 20001121 | 200248 | B |
| US 20020062305 | A1 | 20020523 | US 2001987592 | A | 20011115 | 200248 | |
| JP 2002229821 | A | 20020816 | JP 2001320213 | A | 20011018 | 200269 | |

Priority Applications (No Type Date): GB 200028311 A 20001121
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| GB 2369208 | A | | 22 | G06F-017/30 | |
| US 20020062305 | A1 | | | G06F-007/00 | |
| JP 2002229821 | A | | 8 | G06F-012/00 | |

Abstract (Basic): GB 2369208 A
NOVELTY - A memory holds permanent records before and after modifying the database transactions. The relation determination unit

relates parent data item to dependent data item. The state determination unit determines the state of database after modifying transaction, by relating the determined root data item corresponding to that database state, to data items in the record of database state.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Programmed computer; and

(2) Data storage medium storing the program for database management.

USE - For database management system (DBMS).

ADVANTAGE - The database is flexibly maintained overtime, by exclusively adding data items to the database and preferably without requiring any existing data item to be modified or deleted. The efficiency of the physical data is increased by splitting or merging logical ranges corresponding to physical records.

DESCRIPTION OF DRAWING(S) - The figure shows schematically the logical and physical status of database.

pp; 22 DwgNo 2/5

Title Terms: DATABASE; MANAGEMENT; SYSTEM; DETERMINE; STATE; DATABASE; AFTER; MODIFIED; TRANSACTION; RELATED; DETERMINE; ROOT; DATA; ITEM; CORRESPOND; DATABASE; STATE; DATA; ITEM; RECORD; DATABASE; STATE

Derwent Class: T01

International Patent Class (Main): G06F-007/00; G06F-012/00; G06F-017/30

File Segment: EPI

```
Set     Items   Description
S1          0   AU=(GAWNE-CAIN, A? OR GAWNE-CAIN A?)
File   2:INSPEC 1969-2004/Mar W2
         (c) 2004 Institution of Electrical Engineers
File   6:NTIS 1964-2004/Mar W3
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2004/Mar W1
         (c) 2004 Elsevier Eng.  Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Mar W2
         (c) 2004 Inst for Sci Info
File  35:Dissertation Abs Online 1861-2004/Feb
         (c) 2004 ProQuest Info&Learning
File  65:Inside Conferences 1993-2004/Mar W3
         (c) 2004 BLDSC all rts. reserv.
File  92:IHS Intl.Stds.& Specs. 1999/Nov
         (c) 1999 Information Handling Services
File  94:JICST-EPlus 1985-2004/Mar W2
         (c)2004 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2004/Mar W1
         (c) 2004 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Feb
         (c) 2004 The HW Wilson Co.
File 103:Energy SciTec 1974-2004/Mar B1
         (c) 2004 Contains copyrighted material
File 144:Pascal 1973-2004/Mar W2
         (c) 2004 INIST/CNRS
File 202:Info. Sci. & Tech. Abs. 1966-2004/Feb 27
         (c) 2004 EBSCO Publishing
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
File 239:Mathsci 1940-2004/Apr
         (c) 2004 American Mathematical Society
File 275:Gale Group Computer DB(TM) 1983-2004/Mar 24
         (c) 2004 The Gale Group
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 647:CMP  Computer Fulltext 1988-2004/Mar W2
         (c) 2004 CMP Media, LLC
File 674:Computer News Fulltext 1989-2004/Mar W2
         (c) 2004 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2004/Mar 23
         (c) 2004 The Dialog Corp.
```

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Set     Items   Description
S1    1610603   RELATION? OR CONNECTION? OR ASSOCIATION OR LINK OR LINKS OR
               CORRELATION? OR INTERCONNECTION? OR RELATE?
S2       7331   (DATA OR INFORMATION)()(ITEM OR ELEMENT OR FIELD OR SINGLE-
               ()UNIT)
S3    4201455   DETERMIN? OR DENOT? OR POINT()OUT OR RECOGNI? OR DECID? OR
               SPECIF? OR DESIGNAT? OR DETECT? OR ASCERTAIN OR STIPULAT?
S4    3989311   POSITION OR PLACE OR ADDRESS OR LOCATION OR ORDER OR RANK?
               OR STANDING OR HIERARCH? OR GROUP?
S5    1453595   ROOT? OR PARENT OR MASTER OR MAIN OR PRIMARY OR CALLING
S6     636711   DEPENDENT OR CHILD OR BRANCH OR LEAVES OR OFFSPRING OR OFF-
               ()SPRING OR SUBPROGRAM OR SUBROUTINE OR SECONDARY OR SLAVE OR
               CALLED
S7     200134   (DATA OR INFORMATION)(2N)(CHUNK? OR PORTION? OR PART? OR S-
               ECTION OR SEGMENT? OR PIECE? OR BLOCK? OR NODE? ?)
S8    2892544   MODIF? OR UPDAT? OR CHANG? OR CURRENT OR EDIT? OR REVIS? OR
               REVAMP? OR REWORK? OR ALTER? OR UP()(DATING OR DATE? ?)
S9    1736053   TRANSACTION? OR ACTIVIT? OR EXECUTION? OR COMPLET? OR DISC-
               HARG?
S10      1655   S1 AND S2
S11        25   S3 AND S4 AND (S2 (3N) S5)
S12         3   S11 AND S7
S13     44315   S8 (3N) S9
S14       852   S3 AND S10
S15        88   S14 AND S5
S16        32   S15 AND S6
S17        54   S11 OR S12 OR S16
S18        32   S17 AND IC=G06F?
S19         8   S17 AND MC=(501-J05B2B OR T01-J05B4M OR T01-S03)
S20        35   S18 OR S19
File 347:JAPIO Nov 1976-2003/Nov(Updated 040308)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200419
         (c) 2004  Thomson Derwent
```

20/5/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO


07361324 **Image available**
DATABASE MANAGEMENT SYSTEM

PUB. NO.: 2002-229821 [JP 2002229821 A]
PUBLISHED: August 16, 2002 (20020816)
INVENTOR(s): GAWNE-CAIN ADAM
APPLICANT(s): GAWNE CAIN RESEARCH LTD
APPL. NO.: 2001-320213 [JP 2001320213]
FILED: October 18, 2001 (20011018)
PRIORITY: 00 200028311 [GB 200028311], GB (United Kingdom), November 21, 2000 (20001121)
INTL CLASS: **G06F-012/00**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a database management system capable of **designating** simply the previous state of the database.

SOLUTION: **Parent** data items (America, Spain; S* or the like) in records in the states of each database are correlated with **dependent** data items (Africa, Canada, France; France, Turkey or the like). **Root** data items (England; E* or the like) in the records are correlated with other data items in the records. By using the **correlation** , the **root data item** (E*) pertinent to the state of the database can be correlated with both the data items (S*, Turkey) and the data items (America, Africa, Canada, France) in the records in the state of the database before data correction processing. Hereby, the state of the database after database correction processing can be defined, and the data before and after the correction processing can be held, and the data before the correction can be acquired simply.



20/5/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO


04618134 **Image available**
METHOD FOR EXTRACTING SOFTWARE **SPECIFICATION** INFORMATION

PUB. NO.: 06-290034 [JP 6290034 A]
PUBLISHED: October 18, 1994 (19941018)
INVENTOR(s): DANNO HIROBUMI
NAITO ICHIRO
TSUKUDA GUNJI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-079339 [JP 9379339]
FILED: April 06, 1993 (19930406)
INTL CLASS: [5] **G06F-009/06**
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JOURNAL: Section: , Section No. FFFFFF, Vol. 94, No. 10, Pg. FFFFFF, FF, FFFF (FFFFFFFF)

ABSTRACT

PURPOSE: To analyze software and to extract a data generating procedure in **relation** with data structure.
CONSTITUTION: A processing procedure for program analysis (101) for inputting a program from an external storage device and carrying out syntax analysis, data structure extraction (1301) for extracting data structure information including redefinition items, data generating procedure extraction (1302) for extracting the generating procedure of each **data item** including a procedure for controlling the generating procedure, data

generating procedure arrangement (1303) for arranging the data generating procedure based upon the **master - slave relation** of data structure, and data generating procedure output (1304) for outputting the generating procedure of a **data item** arranged in the data structure information as a shape different from that of the other procedure of the analyzed program together with the other procedure or displaying the procedure concerned on an output device by Japanese expression corresponding to a procedure pattern is executed. Consequently developed software can be reused and the understanding work of the developed software in maintenance work can be efficiently executed.

**20/5/9 (Item 6 from file: 350)**



014625952 **Image available**
WPI Acc No: 2002-446656/200248
XRPX Acc No: N02-351985

**Database management system** determines **state of database after modifying transactions, by relating** determined root data item **corresponding to that database state, to data items in record of database state**

Patent Assignee: GAWNE CAIN RES LTD (GAWN-N)
Inventor: GAWNE-CAIN A; GAWNE-CAIN A P
Number of Countries: 003 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| GB 2369208 | A | 20020522 | GB 200028311 | A | 20001121 | 200248 | B |
| US 20020062305 | A1 | 20020523 | US 2001987592 | A | 20011115 | 200248 | |
| JP 2002229821 | A | 20020816 | JP 2001320213 | A | 20011018 | 200269 | |

Priority Applications (No Type Date): GB 200028311 A 20001121
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| GB 2369208 | A | | 22 | G06F-017/30 | |
| US 20020062305 | A1 | | | G06F-007/00 | |
| JP 2002229821 | A | | 8 | G06F-012/00 | |

Abstract (Basic): GB 2369208 A

NOVELTY - A memory holds permanent records before and after modifying the database transactions. The **relation determination** unit **relates parent data item** to **dependent data item** . The state **determination** unit **determines** the state of database after modifying transaction, by relating the **determined root data item** corresponding to that database state, to data items in the record of database state.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Programmed computer; and

(2) Data storage medium storing the program for database management.

USE - For database management system (DBMS).

ADVANTAGE - The database is flexibly maintained overtime, by exclusively adding data items to the database and preferably without requiring any existing **data item** to be modified or deleted. The efficiency of the physical data is increased by splitting or merging logical ranges corresponding to physical records.

DESCRIPTION OF DRAWING(S) - The figure shows schematically the logical and physical status of database.

pp; 22 DwgNo 2/5

Title Terms: DATABASE; MANAGEMENT; SYSTEM; **DETERMINE** ; STATE; DATABASE; AFTER; MODIFIED; TRANSACTION; **RELATED** ; **DETERMINE** ; **ROOT** ; DATA; ITEM; CORRESPOND; DATABASE; STATE; DATA; ITEM; RECORD; DATABASE; STATE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00** ; **G06F-012/00** ; **G06F-017/30**
File Segment: EPI

20/5/10 **(Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


014531487 **Image available**
WPI Acc No: 2002-352190/200238
XRPX Acc No: N02-276687

**Routing e.g. for sparsely connected network, involves** primary **and** secondary **route to destination node, these routes being node-disjoint with setup messages having additional** information element **for identity of virtual source node**

Patent Assignee: BRITISH TELECOM PLC (BRTE ); ROBINSON G A (ROBI-I)
Inventor: ROBINSON G A
Number of Countries: 022 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200228035 | A1 | 20020404 | WO 2001GB4340 | A | 20010928 | 200238 | B |
| AU 200192032 | A | 20020408 | AU 200192032 | A | 20010928 | 200252 | |
| US 20030177263 | A1 | 20030918 | WO 2001GB4340 | A | 20010928 | 200362 | |
| | | | US 2003380541 | A | 20030317 | | |

Priority Applications (No Type Date): EP 2000308628 A 20000929
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200228035 | A1 | E | 38 | H04L-012/56 | |
| AU 200192032 | A | | | H04L-012/56 | Based on patent WO 200228035 |
| US 20030177263 | A1 | | | G06F-015/173 | |

Designated States (National): AU CA US
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Abstract (Basic): WO 200228035 A1

NOVELTY - The method involves a **primary** and a **secondary** route to a destination node, these routes being node-disjoint. Setup messages have an additional **information element** for the identity of a virtual source node, and a source node inserts its own identity in the virtual source **information element** . Unless a node is the destination for a message, it examines the content of the virtual source **information element** of a message, and if there is no match with its own identity it selects a route pointer from a part of its routing table in the form of a matrix of pointer bits, and uses that pointer to select one of the **primary** and **secondary** routes for the destination node.

DETAILED DESCRIPTION - If that route is unavailable, the node replaces the content of the virtual source **information element** with its own identity, inverts the pointer bit to select the other route. If neither route is available, the node replaces the content of the virtual source **information element** with the identity of the node from which it was received, and sends the message back to the node from which it was received. An INDEPENDENT CLAIM is included for a node

USE - For routing in communications network of interconnected nodes. For routing in sparsely connected network

ADVANTAGE - Allows loop free routes to be **specified** for sparsely connected networks under single element, i.e. node or **link** , failure conditions with only limited loop prevention mechanism in operation Minimizes operation of crankback under single element failure conditions

DESCRIPTION OF DRAWING(S) - The figure shows a pointer matrix forming part of the routing tables of the nodes

pp; 38 DwgNo 8/8

Title Terms: ROUTE; CONNECT; NETWORK; **PRIMARY** ; **SECONDARY** ; ROUTE; DESTINATION; NODE; ROUTE; NODE; MESSAGE; ADD; INFORMATION; ELEMENT; IDENTIFY; VIRTUAL; SOURCE; NODE
Derwent Class: W01
International Patent Class (Main): **G06F-015/173** ; H04L-012/56

International Patent Class (Additional): H04Q-011/04
File Segment: EPI

**20/5/11 (Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013896645 **Image available**
WPI Acc No: 2001-380858/200140
XRPX Acc No: N01-279271

**Computer readable medium for parameter set data structure of graphics imaging system, has sub-parameter set which includes flag** data element **for** determining relationship **between sub-parameter set and** main **parameter set**

Patent Assignee: AVID TECHNOLOGY INC (AVID-N)
Inventor: BOUCHARD J; DESBOIS D; MOREAU S; SHEASBY M C; STEVENS M P
Number of Countries: 021 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200111568 | A1 | 20010215 | WO 2000US21365 | A | 20000804 | 200140 | B |
| AU 200065202 | A | 20010305 | AU 200065202 | A | 20000804 | 200140 | |

Priority Applications (No Type Date): US 99369689 A 19990806
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 200111568 | A1 | E | 20 | G06T-011/60 | |

Designated States (National): AU CA JP
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

| | | | | |
|---|---|---|---|---|
| AU 200065202 | A | | G06T-011/60 | Based on patent WO 200111568 |

Abstract (Basic): WO 200111568 A1

NOVELTY - A computer readable medium has **main** parameter set data structure (410) comprising several sub-parameter sets (420). Each sub-parameter set data structure includes a flag data elements (430) for **determining** the **relationship** between the sub-parameter set and **main** parameter set.

USE - For parameter set data structure of graphics imaging system used for producing animation in cinema, television industry.

ADVANTAGE - Method is employed to the client processes such as animation video editing without requiring internal knowledge of data being displayed on the part of the clients, hence simple, elegant detail **relationship** between sub-parameter set and **main** parameter set is described.

DESCRIPTION OF DRAWING(S) - The figure shows the **parent / child** parameter set **relationship** having flag data structure.

**Main** parameter set data structure (410)
Sub-parameter set (420)
Flat **data element** (430)
pp; 20 DwgNo 4/4

Title Terms: COMPUTER; READ; MEDIUM; PARAMETER; SET; DATA; STRUCTURE; GRAPHIC; IMAGE; SYSTEM; SUB; PARAMETER; SET; FLAG; DATA; ELEMENT; **DETERMINE** ; **RELATED** ; SUB; PARAMETER; SET; **MAIN** ; PARAMETER; SET
Derwent Class: T01
International Patent Class (Main): G06T-011/60
File Segment: EPI

**20/5/12 (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013822994 **Image available**
WPI Acc No: 2001-307206/200132
XRPX Acc No: N01-219766

**User interface system for use with multilevel** hierarchical **data**

**structure, has video display to represent two adjacent sets of icons with parent and child data elements**
Patent Assignee: NCR CORP (NATC )
Inventor: AMIN D S; HOLZMAN T G
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6208344 | B1 | 20010327 | US 9754346 | A | 19970731 | 200132 | B |
| | | | US 98124496 | A | 19980729 | | |

Priority Applications (No Type Date): US 9754346 P 19970731; US 98124496 A 19980729
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 6208344 | B1 | | 12 | G06F-003/00 | Provisional application US 9754346 |

Abstract (Basic): US 6208344 B1
NOVELTY - A display unit displays one set of iconic representations corresponding to **parent** data elements of multilevel **hierarchical** structure. A pointer coupled to the display unit points out selective representation among displayed representations. The display unit displays another set of iconic representations corresponding to **child** data elements in response to pointer selection.
DETAILED DESCRIPTION - The display unit displays one set of iconic representations at selective locations corresponding to **parent data element** 's associated coordinates **specified** in two dimensions. The display unit displays other set of iconic representation corresponding to **child data element** in **association** with one iconic representation selected by the pointer. The pointer is any one of mouse, trackball, positioning control on keyboard or touch-sensitive visual display screen. An INDEPENDENT CLAIM is also included for user interfacing method for **hierarchical** iconic containers.
USE - For displaying and operating on data elements in computer database used in variety of computer applications in medical field.
ADVANTAGE - The graphical pointer used in human computer system is adjusted so as to effectively **position** the iconic representation of data elements on electronic map.
DESCRIPTION OF DRAWING(S) - The figure shows the graphical representation in three-dimensional space.
pp; 12 DwgNo 3/7
Title Terms: USER; INTERFACE; SYSTEM; MULTILEVEL; **HIERARCHY** ; DATA; STRUCTURE; VIDEO; DISPLAY; REPRESENT; TWO; ADJACENT; SET; **PARENT** ; **CHILD** ; DATA; ELEMENT
Derwent Class: S05; T01
International Patent Class (Main): **G06F-003/00**
File Segment: EPI

**20/5/13 (Item 10 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


012988058 **Image available**
WPI Acc No: 2000-159911/200014
Related WPI Acc No: 2002-606728
XRPX Acc No: N00-119310
**Data processing and visualizing method in database analysis**
Patent Assignee: IVEE DEV AB (IVEE-N)
Inventor: AHLBERG C; TRUVE S; WISTRAND E
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 6014661 | A | 20000111 | US 9619049 | A | 19960506 | 200014 | B |
| | | | US 97850828 | A | 19970502 | | |

Priority Applications (No Type Date): US 9619049 P 19960506; US 97850828 A 19970502

Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
US 6014661    A     14 G06F-017/30   Provisional application US 9619049

Abstract (Basic): US 6014661 A
NOVELTY - The **relational** structure between the data fields is automatically **detected** based on relevance measures of each **data field** . Graphical representation (520) of the **relational** structures of the selected fields is then displayed with query devices (530), such that it is adjustable for further updating.
DETAILED DESCRIPTION - One of the data fields of the records of the database being accessed, is **designated** as **primary** field and remaining fields as **secondary** fields. An INDEPENDENT CLAIM is also included for data processing and visualizing system.
USE - In database analysis used to visualize and analyze financial data, marketing data, demographic data, experimental data, environmental data, logistics data, geographic data, manufacturing data, telephone traffic/usage data, world wide web log files, biostatistics.
ADVANTAGE - Allows the user to selectively view the retrieved data by interactive queries. The query devices allow the user to explore the potential **relationships** within the data sets by analyzing the graphical representation. Automatically adjusts the display so that the data is presented consistently.
DESCRIPTION OF DRAWING(S) - The figure shows the display of result of database analysis.
Graphical representation (520)
Query devices (530)
pp; 14 DwgNo 5/5
Title Terms: DATA; PROCESS; METHOD; DATABASE; ANALYSE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

**20/5/14 (Item 11 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


012827252 **Image available**
WPI Acc No: 1999-633484/199954
XRPX Acc No: N99-467779
**Interpretive computer language providing method for use with object oriented language such as C++**
Patent Assignee: TANDEM COMPUTERS INC (TAND )
Inventor: DAVIDSON T J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No  Kind  Date  Applicat No  Kind  Date  Week
US 5983019  A  19991109  US 9613635  A  19960318  199954  B
US 97819535  A  19970317

Priority Applications (No Type Date): US 9613635 P 19960318; US 97819535 A 19970317
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
US 5983019    A      9 G06F-009/45   Provisional application US 9613635

Abstract (Basic): US 5983019 A
NOVELTY - AddClass command calls a **primary** implementing code, using class **specification** , for creating an object command and is associated with the **specification** location and **secondary** implementing code. The interpreter calls the member function using the object command, such that the **secondary** implementing code locates the member function and the **data item** .
DETAILED DESCRIPTION - An object library includes a class **specification** of the object oriented language object system. The

**specification** includes a member function declaration which defines the member function for operating on its **data item** declaration. The command interpreter uses the command facility for creating an AddClass command added to the command library and is associated with a **primary** implementing code. An INDEPENDENT CLAIM is also included for computer system.

USE - For use with object oriented language such as C++.

ADVANTAGE - Interpretive language is provided with transparent access to the underlying object system. No special coding is required in **connection** with the design of the object designer to export the object's interface to the interpreter. Can be used with any interpretive language having the capability of adding new commands to its interpretive vocabulary. The addition of command to the TCL environment requires only that the desired command name be added to the command interpreter library, and the creation of the implementing code.

DESCRIPTION OF DRAWING(S) - The figure shows flow diagram explaining creation of new commands added to command library of command interpreter.

pp; 9 DwgNo 1/3

Title Terms: COMPUTER; LANGUAGE; METHOD; OBJECT; ORIENT; LANGUAGE
Derwent Class: T01
International Patent Class (Main): **G06F-009/45**
File Segment: EPI

**20/5/15 (Item 12 from file: 350)**



012238981 **Image available**
WPI Acc No: 1999-045089/199904
Related WPI Acc No: 1998-286279
XRPX Acc No: N99-032987

**Index key value** location **method for data base management system - involves comparing search key with low key and high key information fields stored in LAST and PARENT field to** determine **whether search key is located within leaf page described by them**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )
Inventor: CHADHA A; HADERLE D J; LYLE R W; SHIBAMIYA A; WATTS S J
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5845274 | A | 19981201 | US 95438558 | A | 19950510 | 199904 | B |
| | | | US 95471509 | A | 19950606 | | |

Priority Applications (No Type Date): US 95438558 A 19950510; US 95471509 A 19950606
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5845274 | A | | 14 | G06F-017/30 | Div ex application US 95438558 |

Abstract (Basic): US 5845274 A

The method involves storing page descriptive information comprising a page number information field, a high key information field and a low key information field in a LAST **information field** and a **PARENT information field** of an index look aside buffer. The LAST information field identifies the most recent leaf page accessed during an index probe and PARENT field, a parent node of the most recent leaf page accessed. A search key is compared with the low key information field and high key information field of LAST field to **determine** if the search key is located within the page described by LAST field.

Similarly the search key is searched in PARENT field. A parent- to leaf traversal is performed when it is **determined** that the search key is within one of leaf pages described by PARENT field. A root to leaf traversal of index tree is performed to find leaf page containing search key if LAST and PARENT field do not identify leaf page containing the search key.

ADVANTAGE - Utilizes proximity of keys in sequential or near sequential index probes by saving page information from previous index accesses. Eliminates redundant traversals through index tree. Enables efficient search and access of information from data base.

Dwg.3/8

Title Terms: INDEX; KEY; VALUE; LOCATE; METHOD; DATA; BASE; MANAGEMENT; SYSTEM; COMPARE; SEARCH; KEY; LOW; KEY; HIGH; KEY; INFORMATION; FIELD; STORAGE; LAST; PARENT; FIELD; **DETERMINE** ; SEARCH; KEY; LOCATE; LEAF; PAGE; DESCRIBE

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

**20/5/16 (Item 13 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



011869369 **Image available**

WPI Acc No: 1998-286279/199825

Related WPI Acc No: 1999-045089

XRPX Acc No: N98-225088

**Complete index tree traversal avoidance method - involves** determining **if search key is located within leaf page described by LAST information field and if search key is located within leaf page pointed to by parent page described in** PARENT information field

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: CHADHA A; HADERLE D J; LYLE R W; SHIBAMIYA A; WATTS S J

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5748952 | A | 19980505 | US 95438558 | A | 19950510 | 199825 | B |

Priority Applications (No Type Date): US 95438558 A 19950510

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5748952 | A | | 15 | G06F-017/30 | |

Abstract (Basic): US 5748952 A

The method for avoiding a root-to-leaf traversal of an index tree involves storing page descriptive information in a LAST **information field** and a **PARENT information field** in an index lookaside buffer. The LAST information field identifies the most recent leaf page accessed during an index probe and the **PARENT information field** identifies a **parent** node of the most recent leaf page accessed during an index probe.

It is **determined** if a search key is located within the leaf page described by the LAST information field. It is also **determined** if the search key is **location** within one of the leaf pages pointed to by the parent page described in the **PARENT information field** .

USE - For database management systems.

ADVANTAGE - Eliminates root-to-leaf traversals by taking advantage of proximity of keys in sequential or near sequential index accesses.

Dwg.2/8

Title Terms: COMPLETE; INDEX; TREE; TRAVERSE; AVOID; METHOD; **DETERMINE** ; SEARCH; KEY; LOCATE; LEAF; PAGE; DESCRIBE; LAST; INFORMATION; FIELD; SEARCH; KEY; LOCATE; LEAF; PAGE; POINT; PARENT; PAGE; DESCRIBE; PARENT; INFORMATION; FIELD

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

File Segment: EPI

**20/5/17 (Item 14 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

011836192 **Image available**
WPI Acc No: 1998-253102/199823
XRPX Acc No: N98-199925
**Method of reducing thrashing in cache memory - involves moving first data item from first main memory location to third main memory location with third address including second page index which identifies second cache line**
Patent Assignee: NCR INT INC (NATC ); NCR CORP (NATC )
Inventor: COCHCROFT A F
Number of Countries: 025 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 841619 | A2 | 19980513 | EP 97308012 | A | 19971010 | 199823 | B |
| US 5752261 | A | 19980512 | US 96745035 | A | 19961107 | 199826 | |
| JP 10254777 | A | 19980925 | JP 97296531 | A | 19971029 | 199849 | |

Priority Applications (No Type Date): US 96745035 A 19961107
Cited Patents: No-SR.Pub
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 841619 | A2 | E | 14 | G06F-012/08 | |
| Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI | | | | | |
| JP 10254777 | A | | 15 | G06F-012/08 | |
| US 5752261 | A | | | G06F-012/12 | |

Abstract (Basic): EP 841619 A
The method involves updating an access value (112) associated with the first cache line when the cache memory (22) is referenced with the first page index. A replacement value (110) associated with the first cache line is updated when the first data item stored in the first cache line is replaced with the second data item. A thrashing value is **determined** from the replacement value and the access value. The first tag is stored in a third memory **location** (132) and the second tag is stored in a fourth memory **location** (134) when the thrashing value has satisfied a predetermined relationship with a threshold value. The first data item is moved from the first main memory **location** to a third main memory **location** with a third **address** including a second page index which identifies a second cache line. The second data item is moved from the second main memory **location** to a third main memory **location** with a third **address** including a second page index which identifies a second cache line.
ADVANTAGE - Improves performance of direct-mapped cache memory and set associative cache memory by **detecting** which memory reference are causing thrashing.
Dwg.5/6
Title Terms: METHOD; REDUCE; THRASHING; CACHE; MEMORY; MOVE; FIRST; DATA; ITEM; FIRST; MAIN; MEMORY; LOCATE; THIRD; MAIN; MEMORY; LOCATE; THIRD; **ADDRESS** ; SECOND; PAGE; INDEX; IDENTIFY; SECOND; CACHE; LINE
Derwent Class: T01
International Patent Class (Main): **G06F-012/08** ; **G06F-012/12**
File Segment: EPI

**20/5/18 (Item 15 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


011600841 **Image available**
WPI Acc No: 1998-017969/199802
Related WPI Acc No: 1998-556991
XRPX Acc No: N98-013772
**Object oriented computer based information handling system - has master block for accessing objects of first version of data element, and including list of address offsets that starts at cluster pointer address**
Patent Assignee: GEN MAGIC (GEMA-N)

Inventor: GOLDMAN P Y; HERTZFELD A J
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5692187 | A | 19971125 | US 95388069 | A | 19950214 | 199802 | B |
| | | | US 95474278 | A | 19950607 | | |

Priority Applications (No Type Date): US 95474278 A 19950607; US 95388069 A 19950214
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5692187 | A | | 12 | G06F-017/30 | CIP of application US 95388069 |

Abstract (Basic): US 5692187 A

The system includes a processor, while a read only memory is coupled to it. The read only memory stores a first version of a data element, that includes a number of objects. A random access memory is coupled to the processor, for storing a second version of the data element, that includes a number of objects. A shadow system transparently **determines** which of the first and second versions of the data elements the processor accesses.

The shadow system has a master block for accessing objects of the first version of the **data element** , the **master** block including a list of **address** offsets, and the list of **address** offsets starting at a cluster pointer **address** .

USE - As object oriented computer system.

ADVANTAGE - Allows multiple alterations of base system while using only enough memory to store difference of each alteration from source cluster of base system.

Dwg.1/7

Title Terms: OBJECT; ORIENT; COMPUTER; BASED; INFORMATION; HANDLE; SYSTEM; MASTER; BLOCK; ACCESS; OBJECT; FIRST; VERSION; DATA; ELEMENT; LIST; **ADDRESS** ; OFFSET; START; CLUSTER; POINT; **ADDRESS**
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

**20/5/19 (Item 16 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


011541285 **Image available**
WPI Acc No: 1997-517766/199748
XRPX Acc No: N97-430889

**CPU for computer - includes effective request flag in read-out buffer which indicates effect of error in branch prediction on read-out data field**

Patent Assignee: HITACHI LTD (HITA )
Number of Countries: 001 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 9244892 | A | 19970919 | JP 9651322 | A | 19960308 | 199748 | B |
| JP 3473249 | B2 | 20031202 | JP 9651322 | A | 19960308 | 200402 | |

Priority Applications (No Type Date): JP 9651322 A 19960308
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 9244892 | A | | 16 | G06F-009/38 | |
| JP 3473249 | B2 | | 16 | G06F-009/38 | Previous Publ. patent JP 9244892 |

Abstract (Basic): JP 9244892 A

The CPU has a branch unit (150) and a read-out buffer (180). The read-out buffer stores a memory read-out request and write-in buffer (170) stores a memory write-in request. A main memory access unit (160), a branch prediction circuit (110) and a memory control circuit (100) are also provided. The read-out buffer has an effective-entry

flag (180a) provided for entry of every read-out. When a branch prediction result is obtained, the direction of prediction is **specified** using a branch prediction field (180b).

A branch prediction error bit (180c) indicates the non- performance of entry because of branch prediction error. The read-out buffer has a read-out **address** (180d), a read-out **data field** (180f) and a **main** memory read-out completion flag (180e). An effective request flag indicates the effect of error in branch prediction on read-out data field.

ADVANTAGE - Reduces read-out time. Improves capability of CPU.

Dwg.1/11

Title Terms: CPU; COMPUTER; EFFECT; REQUEST; FLAG; READ; BUFFER; INDICATE; EFFECT; ERROR; BRANCH; PREDICT; READ; DATA; FIELD

Derwent Class: T01

International Patent Class (Main): **G06F-009/38**

File Segment: EPI

**20/5/20 (Item 17 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



010643010 **Image available**

WPI Acc No: 1996-139964/199614

XRPX Acc No: N96-117218

**Configuration method for distributed data management system using hierarchical routing - inputting search message to network at end node, which contains data elements, message being passed towards root node until it encounters flagged route**

Patent Assignee: BRITISH TELECOM PLC (BRTE )

Inventor: QUINTELA M P; WILBY M

Number of Countries: 065 Number of Patents: 018

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 9605704 | A2 | 19960222 | WO 95GB1882 | A | 19950809 | 199614 | B |
| AU 9531865 | A | 19960307 | AU 9531865 | A | 19950809 | 199624 | |
| WO 9605704 | A3 | 19960418 | WO 95GB1882 | A | 19950809 | 199630 | |
| FI 9700569 | A | 19970211 | WO 95GB1882 | A | 19950809 | 199719 | |
| | | | FI 97569 | A | 19970211 | | |
| EP 775427 | A1 | 19970528 | EP 95927875 | A | 19950809 | 199726 | |
| | | | WO 95GB1882 | A | 19950809 | | |
| NO 9700627 | A | 19970411 | WO 95GB1882 | A | 19950809 | 199726 | |
| | | | NO 97627 | A | 19970211 | | |
| NZ 290910 | A | 19970526 | NZ 290910 | A | 19950809 | 199727 | |
| | | | WO 95GB1882 | A | 19950809 | | |
| SG 43133 | A1 | 19971017 | SG 964114 | A | 19940812 | 199801 | N |
| AU 688096 | B | 19980305 | AU 9531865 | A | 19950809 | 199820 | |
| JP 10504943 | W | 19980512 | WO 95GB1882 | A | 19950809 | 199829 | |
| | | | JP 96507114 | A | 19950809 | | |
| KR 97705313 | A | 19970906 | WO 95GB1882 | A | 19950809 | 199839 | |
| | | | KR 97700915 | A | 19970212 | | |
| US 5941955 | A | 19990824 | WO 95GB1882 | A | 19950809 | 199941 | |
| | | | US 97776791 | A | 19970324 | | |
| EP 775427 | B1 | 19991013 | EP 95927875 | A | 19950809 | 199947 | |
| | | | WO 95GB1882 | A | 19950809 | | |
| DE 69512789 | E | 19991118 | DE 612789 | A | 19950809 | 200001 | |
| | | | EP 95927875 | A | 19950809 | | |
| | | | WO 95GB1882 | A | 19950809 | | |
| MX 9701115 | A1 | 19980301 | MX 971115 | A | 19970212 | 200002 | |
| ES 2139924 | T3 | 20000216 | EP 95927875 | A | 19950809 | 200016 | |
| CA 2197199 | C | 20001003 | CA 2197199 | A | 19950809 | 200056 | |
| | | | WO 95GB1882 | A | 19950809 | | |
| CN 1158204 | A | 19970827 | CN 95195116 | A | 19950809 | 200140 | |

Priority Applications (No Type Date): EP 94305967 A 19940812; SG 964114 A 19940812

Cited Patents: 2.Jnl.Ref; DE 3921637; EP 556515; EP 614322; US 5400338

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9605704 | A2 | E | 30 | H04Q-003/00 | |
| Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN | | | | | |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG | | | | | |
| AU 9531865 | A | | | H04Q-003/00 | Based on patent WO 9605704 |
| WO 9605704 | A3 | | | H04Q-003/00 | |
| FI 9700569 | A | | | H04Q-000/00 | |
| EP 775427 | A1 | E | | H04Q-003/00 | Based on patent WO 9605704 |
| Designated States (Regional): BE CH DE DK ES FR GB IT NL SE | | | | | |
| NO 9700627 | A | | | H04Q-000/00 | |
| NZ 290910 | A | | | H04Q-003/00 | Based on patent WO 9605704 |
| SG 43133 | A1 | | | H04Q-003/00 | |
| AU 688096 | B | | | H04Q-003/00 | Previous Publ. patent AU 9531865<br>Based on patent WO 9605704 |
| JP 10504943 | W | | 34 | H04M-003/00 | Based on patent WO 9605704 |
| KR 97705313 | A | | | H04Q-003/00 | Based on patent WO 9605704 |
| US 5941955 | A | | | G06F-015/16 | Based on patent WO 9605704 |
| EP 775427 | B1 | E | | H04Q-003/00 | Based on patent WO 9605704 |
| Designated States (Regional): BE CH DE DK ES FR GB IT LI NL PT SE | | | | | |
| DE 69512789 | E | | | H04Q-003/00 | Based on patent EP 775427<br>Based on patent WO 9605704 |
| MX 9701115 | A1 | | | H04Q-003/00 | |
| ES 2139924 | T3 | | | H04Q-003/00 | Based on patent EP 775427 |
| CA 2197199 | C | E | | H04Q-003/00 | Based on patent WO 9605704 |
| CN 1158204 | A | | | H04Q-003/00 | |

Abstract (Basic): WO 9605704 A

The configuration method for a data access system for accessing data elements stored in a distributed data structure, the system including a hierarchy of nodes connected by communication **links** . The hierarchy extends from a **root** node to a number of end nodes which define the data structure. A request to access a **specific data element** triggers a search message which passes through the hierarchy from an end node towards a **root** node until it reaches a node having a pointer relevant to the **specific data element** .

After the search message is passed along the associated route to the end node contg. the **data element** the recovery method is implemented by **detecting** a failure of part of the hierarchy affecting communication between a **child** node and a **parent** node. Another communication **link** is set up between the **child** node and a further node which then acts as the **parent** node. A second **link** is set up between the second **parent** node and the first one, which is instructed to send messages to the second **parent** node for subsequent transfer to the **child** node. The second **parent** node periodically updates the other nodes of the hierarchy as to the new location if the **child** node is the hierarchy.

USE/ADVANTAGE - E.g. for system having personalised numbering scheme. Routing network provides automatic tracking of user

Title Terms: CONFIGURATION; METHOD; DISTRIBUTE; DATA; MANAGEMENT; SYSTEM; HIERARCHY; ROUTE; INPUT; SEARCH; MESSAGE; NETWORK; END; NODE; CONTAIN; DATA; ELEMENT; MESSAGE; PASS; **ROOT** ; NODE; ENCOUNTER; FLAG; ROUTE

Derwent Class: W01

International Patent Class (Main): **G06F-015/16** ; H04M-003/00; H04Q-000/00; H04Q-003/00

International Patent Class (Additional): **G06F-011/00**

File Segment: EPI

**20/5/21 (Item 18 from file: 350)**



010574287

WPI Acc No: 1996-071240/199608
XRPX Acc No: N96-059666
**Information processing method - involves generating sequence information which specifies sequences with more lower order than sequence of parent information element**
Patent Assignee: SONY CORP (SONY )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 7282158 | A | 19951027 | JP 9476824 | A | 19940415 | 199608 | B |

Priority Applications (No Type Date): JP 9476824 A 19940415
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 7282158 | A | | 7 | G06F-019/00 | |

Abstract (Basic): JP 7282158 A

The information processing method uses a set of information elements that are stored in the memory unit. A sequence title field (31) is setup at the upper part of the screen of the display device. The arbitrary sequence titles are displayed on the sequence field.

The display element corresponding to an information element is arranged on each sequence. The sequence information which **specifies** sequences with more lower **order** than the sequence of the **parent information element** , is then formed.

ADVANTAGE - Realises legible display of each information element. Enables to search desired information element quickly and reliably.

Dwg.0/9

Title Terms: INFORMATION; PROCESS; METHOD; GENERATE; SEQUENCE; INFORMATION; **SPECIFIED** ; SEQUENCE; MORE; LOWER; **ORDER** ; SEQUENCE; PARENT; INFORMATION; ELEMENT
Derwent Class: T01
International Patent Class (Main): **G06F-019/00**
International Patent Class (Additional): **G06F-003/14** ; **G06F-012/00** ; **G06F-017/21** ; **G06F-017/30**
File Segment: EPI

**20/5/22 (Item 19 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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010280329 **Image available**
WPI Acc No: 1995-181587/199524
XRPX Acc No: N95-142516
**Data collecting equipment - collects data and required items from several users for constructing process model and data model**
Patent Assignee: IBM CORP (IBMC ); INT BUSINESS MACHINES CORP (IBMC )
Inventor: EDWARDS G E
Number of Countries: 002 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 6266813 | A | 19940922 | JP 93245688 | A | 19930930 | 199524 | B |
| US 5590360 | A | 19961231 | US 92962764 | A | 19921019 | 199707 | |
| | | | US 94360195 | A | 19941220 | | |

Priority Applications (No Type Date): US 92962764 A 19921019; US 94360195 A 19941220
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 6266813 | A | | 36 | G06F-015/60 | |
| US 5590360 | A | | 36 | G06F-015/40 | Cont of application US 92962764 |

Abstract (Basic): JP 6266813 A

The data collection equipment has a LAN with several terminals, each with steps for display and data input. A computer server is connected to the network and has a central data base for receiving and storing information about previously selected process or data flow. A

screen on each display and a prompt to each terminal are indicated.

The information of a previously selected process or data flow from each terminal is entered into the central data base in a term of a common session. The received data is stored in a common table inside the central data base.

USE - Allows several users to input information during session. Checks collected information later.

Dwg.1/16

Title Terms: DATA; COLLECT; EQUIPMENT; COLLECT; DATA; REQUIRE; ITEM; USER; CONSTRUCTION; PROCESS; MODEL; DATA; MODEL.

Derwent Class: T01; W01

International Patent Class (Main): **G06F-015/40 ; G06F-015/60**

International Patent Class (Additional): **G06F-009/06** ; H04L-012/28

File Segment: EPI

**20/5/23 (Item 20 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



010215888 **Image available**

WPI Acc No: 1995-117142/199516

XRPX Acc No: N95-092425

**Data reproduction appts for multi-media applications - reproduces element data of second data group at equal frequency while** data element **of first data group having multiple reproduction channels are reproduced**

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU ); MATSUSHITA ELEC IND CO LTD (MATU )

Inventor: DONNELLY S; KOBAYASHI R; KOZUKA M; YAMAUCHI K

Number of Countries: 007 Number of Patents: 007

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 644495 | A2 | 19950322 | EP 94306820 | A | 19940919 | 199516 | B |
| TW 247360 | A | 19950511 | TW 94108941 | A | 19940927 | 199530 | |
| EP 644495 | A3 | 19960306 | EP 94306820 | A | 19940919 | 199624 | |
| US 5613109 | A | 19970318 | US 94307927 | A | 19940916 | 199717 | |
| KR 156286 | B1 | 19981116 | KR 9423487 | A | 19940916 | 200030 | |
| EP 644495 | B1 | 20011212 | EP 94306820 | A | 19940919 | 200204 | |
| DE 69429401 | E | 20020124 | DE 629401 | A | 19940919 | 200215 | |
| | | | EP 94306820 | A | 19940919 | | |

Priority Applications (No Type Date): JP 94212711 A 19940906; JP 93232905 A 19930920

Cited Patents: No-SR.Pub; 2.Jnl.Ref; EP 460867; EP 528425; EP 627690

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 644495 | A2 | E | 64 | G06F-017/30 | |
| Designated States (Regional): DE FR GB NL | | | | | |
| TW 247360 | A | | | G11B-011/12 | |
| EP 644495 | A3 | | | G06F-017/30 | |
| US 5613109 | A | | 64 | G06F-003/00 | |
| KR 156286 | B1 | | | G06F-017/30 | |
| EP 644495 | B1 | E | | G06F-017/30 | |
| Designated States (Regional): DE FR GB NL | | | | | |
| DE 69429401 | E | | | G06F-017/30 | Based on patent EP 644495 |

Abstract (Basic): EP 644495 A

The data reproduction appts includes a memory unit (21) for storing element data and management data, a data read-out unit (22) for reading the data stored in memory (21)and a reproduction unit (23) for converting the element data read (22) into reproduction data. An output unit (24) outputs the reproduction data in the form of video and sound outputs. An operation unit (25) accepts a users instructions and a reproduction control unit (26) includes a microprocessor, ROM and a RAM storing an operating program. The output unit includes a display screen (27) and a speaker (28).

The memory unit (21) includes a CD-ROM which stores **primary** or element data, and management data **related** to the **primary** data. The

element data includes sound elements, still photograph elements and text elements, and optionally moving-picture elements divided into first and second data groups depending upon the contents. The management data includes index data, channel data and second data reproduction group point data.

USE/ADVANTAGE - Successively reproducing number of scene files composed of stored data including sound, still photographs and text according to users manipulation of data in electronic publishing including insertion of advertisements in electronic book applications.

Dwg.2/40

Title Terms: DATA; REPRODUCE; APPARATUS; MULTI; MEDIUM; APPLY; REPRODUCE; ELEMENT; DATA; SECOND; DATA; GROUP; EQUAL; FREQUENCY; DATA; ELEMENT; FIRST; DATA; GROUP; MULTIPLE; REPRODUCE; CHANNEL; REPRODUCE
Derwent Class: T01; W04
International Patent Class (Main): **G06F-003/00 ; G06F-017/30 ;** G11B-011/12
International Patent Class (Additional): **G06F-003/14 ; G06F-013/16**
File Segment: EPI

**20/5/24 (Item 21 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


010191359 **Image available**
WPI Acc No: 1995-092613/199513
XRPX Acc No: N95-073237
**Async. transfer mode local area network - uses control cells transmitted between** calling **and** called **stations for establishing bidirectional** connection
Patent Assignee: PHILIPS PATENTVERWALTUNG GMBH (PHIG ); PHILIPS ELECTRONICS NV (PHIG ); US PHILIPS CORP (PHIG )
Inventor: DU Y
Number of Countries: 007 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 641105 | A2 | 19950301 | EP 94202455 | A | 19940829 | 199513 | B |
| DE 4329048 | A1 | 19950302 | DE 4329048 | A | 19930828 | 199514 | |
| JP 7154407 | A | 19950616 | JP 94203670 | A | 19940829 | 199533 | |
| EP 641105 | A3 | 19950802 | EP 94202455 | A | 19940829 | 199613 | |
| US 5600795 | A | 19970204 | US 94297210 | A | 19940829 | 199711 | N |

Priority Applications (No Type Date): DE 4329048 A 19930828; US 94297210 A 19940829
Cited Patents: No-SR.Pub; EP 279627; US 3713096
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 641105 | A2 | G | 20 | H04L-012/42 | |
| Designated States (Regional): DE FR GB IT SE | | | | | |
| DE 4329048 | A1 | | 14 | H04L-012/42 | |
| JP 7154407 | A | | 13 | H04L-012/42 | |
| US 5600795 | A | | 13 | G06F-013/00 | |
| EP 641105 | A3 | | | H04L-012/42 | |

Abstract (Basic): EP 641105 A

The network has a number of stations (1, ...4) coupled to transmission/reception ring terminals, via respective interfaces (5, ...8), each containing a coupling device and a control. The control device within the transmitting station responds to a control cell provided by the latter to establish a **connection** with one or more **specified** reception stations.

The control device within the reception station responds to the received control cell from the transmitting station requesting the **connection** , to establish a return **connection** path with the latter, by transmitting back a further control cell.

ADVANTAGE - Simple call **connection** from each individual station.

Dwg.1/3

Title Terms: ASYNCHRONOUS; TRANSFER; MODE; LOCAL; AREA; NETWORK; CONTROL; CELL; TRANSMIT; CALL; CALL; STATION; ESTABLISH; BIDIRECTIONAL; CONNECT
Index Terms/Additional Words: LAN
Derwent Class: W01
International Patent Class (Main): **G06F-013/00** ; H04L-012/42
International Patent Class (Additional): **G06F-013/14** ; H04L-012/18; H04L-012/28; H04L-012/56; H04Q-003/00
File Segment: EPI

**20/5/25 (Item 22 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010037437 **Image available**
WPI Acc No: 1994-305148/199438
XRPX Acc No: N94-239977
**Self-associative memory with data shunting - comprises RAMs holding data item identified by tag value, addresses RAMs to access locations which are examined to** determine **whether required data items are in them**
Patent Assignee: INT COMPUTERS LTD (INCM )
Inventor: COLLOFF I G; HILDITCH A S
Number of Countries: 002 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| GB 2276961 | A | 19941012 | GB 943316 | A | 19940222 | 199438 | B |
| US 5530834 | A | 19960625 | US 94206001 | A | 19940303 | 199631 | |
| GB 2276961 | B | 19970326 | GB 943316 | A | 19940222 | 199716 | |

Priority Applications (No Type Date): GB 936647 A 19930330
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| GB 2276961 | A | | 19 | G06F-012/08 | |
| US 5530834 | A | | 7 | G06F-012/12 | |
| GB 2276961 | B | | | G06F-012/08 | |

Abstract (Basic): GB 2276961 A
The memory comprises several RAMs, an addressing unit and an examining device. Each RAM **location** holds a data item and a tag value. The tag value identifies a data item. The addressing device addresses the RAMs to access a set of locations, one in each RAM.
The locations are examined in **order** to **determine** whether the required data items are resident in them. The addressing unit hashes an input memory **address** into n separate addresses to respectively **address** the RAMs.
USE/ADVANTAGE- In cache memory system, or as content-addressable memory. Delivers same miss rate as conventional caches of larger size and cost. Allows both much larger CAMs to be constructed and improved reading performance over present CAMs.
Dwg.1/5
Title Terms: SELF; ASSOCIATE; MEMORY; DATA; SHUNT; COMPRISE; RAM; HOLD; DATA; ITEM; IDENTIFY; TAG; VALUE; **ADDRESS** ; RAM; ACCESS; LOCATE; **DETERMINE** ; REQUIRE; DATA; ITEM
Derwent Class: T01; U14
International Patent Class (Main): **G06F-012/08** ; **G06F-012/12**
International Patent Class (Additional): G11C-015/00
File Segment: EPI

**20/5/26 (Item 23 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

009803831 **Image available**
WPI Acc No: 1994-083685/199411
XRPX Acc No: N94-065533
**Data verification in process control system used in automatic or**

**semi-automatic production of e.g. motor vehicle - uses primary buffer to hold incoming data which is validated before passing to secondary buffer for use**

Patent Assignee: PEARSE TRUST HOLDINGS LTD (PEAR-N)
Inventor: HICKEY J A
Number of Countries: 002 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| BE 1005870 | A6 | 19940222 | BE 931210 | A | 19931104 | 199411 | B |
| GB 2283116 | A | 19950426 | GB 9321859 | A | 19931022 | 199520 | N |

Priority Applications (No Type Date): BE 931210 A 19931104
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| BE 1005870 | A6 | | 21 | G06F-000/00 | |
| GB 2283116 | A | | 15 | G06F-011/00 | |

Abstract (Basic): BE 1005870 A

The data verification has an input controller which stores, in a **primary** buffer, data from a capture interface, switching a state flag to false for each **data element** received. A monitor reads and verifies each **data element** and determines whether or not it is **relational** . Each element of non- **relational** data is compared to stored reference values and if correct the state flag set to true.

Each item of **relational** data is also tested and the storage updated. Once all data is in, the data is then transferred to a **secondary** storage for use by the program.

ADVANTAGE - Validates data to avoid propagation of errors in computer controlled sequence of operations.

Dwg.1/1

Title Terms: DATA; VERIFICATION; PROCESS; CONTROL; SYSTEM; AUTOMATIC; SEMI; AUTOMATIC; PRODUCE; MOTOR; VEHICLE; **PRIMARY** ; BUFFER; HOLD; INCOMING; DATA; VALID; PASS; **SECONDARY** ; BUFFER
Derwent Class: T01; T06; W05
International Patent Class (Main): **G06F-011/00**
International Patent Class (Additional): G05B-000/00
File Segment: EPI

**20/5/27 (Item 24 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


009770563 **Image available**
WPI Acc No: 1994-050414/199407
Related WPI Acc No: 1992-383947
XRPX Acc No: N94-039730

**Computer entity- relation database method for monitored mfg. process - using linked list to define relationship between data elements between each of predefined sets and retrieving all of elements of any selected predefined set from two entity fields**

Patent Assignee: AUTOMATED TECHNOLOGY ASSOC INC (AUTO-N); PRAEDICTUS CORP (PRAE-N)
Inventor: LAYDEN D J; LAYDEN J E; PEARSON T A
Number of Countries: 021 Number of Patents: 010
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 583108 | A2 | 19940216 | EP 93305969 | A | 19930728 | 199407 | B |
| AU 9344311 | A | 19940203 | AU 9344311 | A | 19930729 | 199411 | |
| CA 2100599 | A | 19940131 | CA 2100599 | A | 19930715 | 199416 | |
| EP 583108 | A3 | 19940608 | EP 93305969 | A | 19930728 | 199526 | |
| AU 664763 | B | 19951130 | AU 9344311 | A | 19930729 | 199604 | |
| US 5560006 | A | 19960924 | US 91700548 | A | 19910515 | 199644 | |
| | | | US 92922491 | A | 19920730 | | |
| | | | US 95436786 | A | 19950508 | | |
| MX 186404 | B | 19971014 | MX 934557 | A | 19930728 | 199901 | |
| CA 2100599 | C | 20001017 | CA 2100599 | A | 19930715 | 200058 | |
| EP 583108 | B1 | 20020123 | EP 93305969 | A | 19930728 | 200207 | |

DE 69331483 E 20020314 DE 631483 A 19930728 200226
EP 93305969 A 19930728

Priority Applications (No Type Date): US 92922491 A 19920730; US 91700548 A 19910515; US 95436786 A 19950508
Cited Patents: No-SR.Pub; 5.Jnl.Ref; EP 114944; EP 389151
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 583108 | A2 | E | 25 | G06F-015/40 | |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE | | | | | |
| AU 9344311 | A | | | G06F-015/40 | |
| CA 2100599 | A | | | G06F-015/46 | |
| EP 583108 | A3 | | | G06F-015/40 | |
| AU 664763 | B | | | G06F-015/40 | Previous Publ. patent AU 9344311 |
| US 5560006 | A | | 18 | G06F-017/30 | CIP of application US 91700548<br>Cont of application US 92922491<br>CIP of patent US 5339257 |
| MX 186404 | B | | | G06F-015/040 | |
| CA 2100599 | C | E | | G06F-015/40 | |
| EP 583108 | B1 | E | | G06F-017/30 | |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE | | | | | |
| DE 69331483 | E | | | G06F-017/30 | Based on patent EP 583108 |

Abstract (Basic): EP 583108 A

The method of handling pre-defined sets of **related** information involves constructing a database including a number of entity fields, and adding data elements to the database such that elements of each of the predefined sets are located in at least two of the entity fields. Then, associating with each element of a second entity field an **address** for a first and a last **related** element in a first entity field the set of all such addresses for these elements forming together a head of a linked list. Next, associating with each element of the first entity field addresses for the next **related** and previous elements. The set of all such addresses for the next and previous **related** elements forms a continuation of a linked list.

Then, indexing the data elements in at least the second entity field in an **order related** to a selected characteristic of the data elements within the indexed entity field. Finally, retrieving a selected one of the predefined sets of elements from the entity fields using a binary search.

ADVANTAGE - Can complete data access and retrieval in every instance, and even in worst case operates within chosen time limit.

Dwg.2/2

Title Terms: COMPUTER; ENTITY; **RELATED** ; DATABASE; METHOD; MONITOR; MANUFACTURE; PROCESS; **LINK** ; LIST; DEFINE; **RELATED** ; DATA; ELEMENT; PREDEFINED; SET; RETRIEVAL; ELEMENT; SELECT; PREDEFINED; SET; TWO; ENTITY ; FIELD
Derwent Class: T01
International Patent Class (Main): **G06F-015/040** ; **G06F-015/40** ; **G06F-015/46** ; **G06F-017/30**
International Patent Class (Additional): **G06F-012/008** ; **G06F-012/08** ; **G06F-015/020** ; **G06F-015/419**
File Segment: EPI

**20/5/28 (Item 25 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


009610147 **Image available**
WPI Acc No: 1993-303695/199338
XRPX Acc No: N93-233485

**Computer cache memory - uses multiple banks in cache memory, with each bank operating under different mapping function**

Patent Assignee: INRIA INST NAT RECH INFORMATIQUE (INRI-N)
Inventor: SEZNEC A
Number of Countries: 006 Number of Patents: 007
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 9318458 | A1 | 19930916 | WO 93FR212 | A | 19930302 | 199338 | B |
| FR 2688612 | A1 | 19930917 | FR 923054 | A | 19920313 | 199347 | |
| EP 630498 | A1 | 19941228 | EP 93905448 | A | 19930302 | 199505 | |
| | | | WO 93FR212 | A | 19930302 | | |
| EP 630498 | B1 | 19960724 | EP 93905448 | A | 19930302 | 199634 | |
| | | | WO 93FR212 | A | 19930302 | | |
| DE 69303815 | E | 19960829 | DE 603815 | A | 19930302 | 199640 | |
| | | | EP 93905448 | A | 19930302 | | |
| | | | WO 93FR212 | A | 19930302 | | |
| JP 8504042 | W | 19960430 | JP 93515384 | A | 19930302 | 199645 | |
| | | | WO 93FR212 | A | 19930302 | | |
| US 6272592 | B1 | 20010807 | WO 93FR212 | A | 19930302 | 200147 | |
| | | | US 94302695 | A | 19940909 | | |

Priority Applications (No Type Date): FR 923054 A 19920313
Cited Patents: 2.Jnl.Ref; EP 334479; EP 80062
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9318458 | A1 | F | 24 | G06F-012/08 | |
| Designated States (National): JP US | | | | | |
| Designated States (Regional): DE GB NL | | | | | |
| FR 2688612 | A1 | | | G06F-012/08 | |
| EP 630498 | A1 | F | 2 | G06F-012/08 | Based on patent WO 9318458 |
| Designated States (Regional): DE GB NL | | | | | |
| EP 630498 | B1 | F | 12 | G06F-012/12 | Based on patent WO 9318458 |
| Designated States (Regional): DE GB NL | | | | | |
| DE 69303815 | E | | | G06F-012/12 | Based on patent EP 630498 |
| | | | | | Based on patent WO 9318458 |
| JP 8504042 | W | | 27 | G06F-012/08 | Based on patent WO 9318458 |
| US 6272592 | B1 | | | G06F-007/5444 | Based on patent WO 9318458 |

Abstract (Basic): WO 9318458 A
The cache memory has an input/output (ESRQ) to receive a request (REQ) formed by a main **address** (AP) and optional data (D). A second input/output (ESMP) connects to an addressable main memory (MP) or another addressable cache. The cache has multiple memory banks (BCi) each having a number of lines Li to carry data, these lines being individually addressed by a local **address** (AL) in each bank.
The response to a request is to associate the main **address** part of the request with the local **address** in the bank, in accordance with a pre- **determined** mapping. Different mapping functions are used in different banks of cache memory.
ADVANTAGE - Improved average hit rate in computer cache memories.
Dwg.5/6
Title Terms: COMPUTER; CACHE; MEMORY; MULTIPLE; BANK; CACHE; MEMORY; BANK; OPERATE; MAP; FUNCTION
Derwent Class: T01
International Patent Class (Main): **G06F-007/5444** ; **G06F-012/08** ; **G06F-012/12**
File Segment: EPI

**20/5/29 (Item 26 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


009041391 **Image available**
WPI Acc No: 1992-168750/199221
XRPX Acc No: N92-127184
**Virtual memory for computer system - has main memory holding table for translating virtual** address **into real** address **, and virtually addressed slave memory holding copy**

Patent Assignee: INT COMPUTERS LTD (INCM )
Inventor: ALLT G; EATON J R
Number of Countries: 007 Number of Patents: 006
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 486154 | A2 | 19920520 | EP 91309317 | A | 19911010 | 199221 | B |
| AU 9187787 | A | 19920514 | AU 9187787 | A | 19911112 | 199228 | |
| ZA 9108263 | A | 19920729 | ZA 918263 | A | 19911016 | 199236 | |
| EP 486154 | A3 | 19920708 | EP 91309317 | A | 19911010 | 199334 | |
| EP 486154 | B1 | 19970730 | EP 91309317 | A | 19911010 | 199735 | |
| DE 69127056 | E | 19970904 | DE 627056 | A | 19911010 | 199741 | |
| | | | EP 91309317 | A | 19911010 | | |

Priority Applications (No Type Date): GB 9024692 A 19901113
Cited Patents: No-SR.Pub; 1.Jnl.Ref; EP 243724; EP 310444
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 486154 | A2 | E | 8 | G06F-012/10 | |
| Designated States (Regional): BE DE FR GB IT | | | | | |
| ZA 9108263 | A | | 17 | G06F-000/00 | |
| EP 486154 | B1 | E | 9 | G06F-012/10 | |
| Designated States (Regional): BE DE FR GB IT | | | | | |
| DE 69127056 | E | | | G06F-012/10 | Based on patent EP 486154 |
| AU 9187787 | A | | | G06F-012/10 | |
| EP 486154 | A3 | | | G06F-012/10 | |

Abstract (Basic): EP 486154 A

The system comprises a main memory (13) and a virtually addressed slave memory (11, 12). The main memory holds tables for translating a virtual adddress into a real **address** by using predetermined fields of the virtual **address** to index the translation tables. Copies of translation table entries are also held in the slave memory.

Copies of translation table entries in the salve memory are addressed by means of predetermined fields of the virtual **address** . The slave memory has two slave stores. The second slave store of the slave memory is intermediate in size and speed between the first slave store and the main memory. Copies of translation table entries in the slave memory are only held in the second slave store.

USE/ADVANTAGE - Capable of high speed **address** translation.

Dwg.1/4

Title Terms: VIRTUAL; MEMORY; COMPUTER; SYSTEM; MAIN; MEMORY; HOLD; TABLE; TRANSLATION; VIRTUAL; **ADDRESS** ; REAL; **ADDRESS** ; VIRTUAL; **ADDRESS** ; SLAVE; MEMORY; HOLD; COPY
Derwent Class: T01
International Patent Class (Main): **G06F-000/00** ; **G06F-012/10**
File Segment: EPI

**20/5/30 (Item 27 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


008748813 **Image available**
WPI Acc No: 1991-252831/199134
XRPX Acc No: N91-192679

**Net-worked facilities management system -** determines **and extracts attributes of software object needed to preform high level functions of features requesting data**

Patent Assignee: JOHNSON SERVICE CO (JOHV ); JOHNSON CONTROLS TECHNOLOGY CO (JOHV )
Inventor: BURKHARDT D E; DECIOUS G M; GARBE J R; GOTTSCHALK D A; HYZER S M; KOCH D L; MADAUS P W; MAGELAND O M; NESLER C G; PASCUCCI G A; RASMUSSEN D E; SINGERS R R; SPACEK D J; STANDISH D E; STARK J K; VAIRAVAN V E; WAGNER M E; WOEST K L; VAIRAVAN V; PASCUCCU G A
Number of Countries: 018 Number of Patents: 020
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WO 9111766 | A | 19910808 | | | | 199134 | B |
| AU 9173304 | A | 19910821 | | | | 199147 | |
| EP 513206 | A1 | 19921119 | EP 91904509 | A | 19910125 | 199247 | |
| | | | WO 91US551 | A | 19910125 | | |
| JP 5506527 | W | 19930922 | JP 91504862 | A | 19910125 | 199343 | |
| | | | WO 91US551 | A | 19910125 | | |
| AU 647086 | B | 19940317 | AU 9173304 | A | 19910125 | 199416 | |
| WO 9111766 | A3 | 19920109 | WO 91US551 | A | 19910125 | 199509 | |
| US 5384697 | A | 19950124 | US 90476031 | A | 19900130 | 199510 | |
| | | | US 93175770 | A | 19931230 | | |
| EP 513206 | B1 | 19950412 | EP 91904509 | A | 19910125 | 199519 | |
| | | | WO 91US551 | A | 19910125 | | |
| DE 69108900 | E | 19950518 | DE 608900 | A | 19910125 | 199525 | |
| | | | EP 91904509 | A | 19910125 | | |
| | | | WO 91US551 | A | 19910125 | | |
| JP 7182283 | A | 19950721 | JP 91504862 | A | 19910125 | 199538 | |
| | | | JP 94291906 | A | 19910125 | | |
| US 5444851 | A | 19950822 | US 90476031 | A | 19900130 | 199539 | |
| | | | US 94185674 | A | 19940121 | | |
| US 5463735 | A | 19951031 | US 90476031 | A | 19900130 | 199549 | |
| | | | US 94191284 | A | 19940203 | | |
| JP 8055051 | A | 19960227 | JP 91504862 | A | 19910125 | 199618 | |
| | | | JP 94291907 | A | 19910125 | | |
| US 5511188 | A | 19960423 | US 90476031 | A | 19900130 | 199622 | |
| | | | US 93176730 | A | 19931230 | | |
| US 5522044 | A | 19960528 | US 90476031 | A | 19900130 | 199627 | |
| | | | US 94185181 | A | 19940121 | | |
| US 5550980 | A | 19960827 | US 90476031 | A | 19900130 | 199640 | |
| | | | US 94178970 | A | 19940107 | | |
| US 5598566 | A | 19970128 | US 90476031 | A | 19900130 | 199710 | |
| | | | US 94179494 | A | 19940107 | | |
| US 5884072 | A | 19990316 | US 90476031 | A | 19900130 | 199918 | |
| | | | US 93170086 | A | 19931217 | | |
| CA 2075048 | C | 19990817 | CA 2075048 | A | 19910125 | 199953 | |
| | | | WO 91US551 | A | 19910125 | | |
| US 6115713 | A | 20000905 | US 90476031 | A | 19900130 | 200044 | |
| | | | US 93170086 | A | 19931217 | | |
| | | | US 96706194 | A | 19960830 | | |

Priority Applications (No Type Date): US 90476031 A 19900130; US 93175770 A 19931230; US 94185674 A 19940121; US 94191284 A 19940203; US 93176730 A 19931230; US 94185181 A 19940121; US 94178970 A 19940107; US 94179494 A 19940107; US 93170086 A 19931217; US 96706194 A 19960830
Cited Patents: No-SR.Pub; 04Jnl.Ref; NoSR.Pub
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9111766 | A | | | | |
| Designated States (National): AU CA JP | | | | | |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE | | | | | |
| EP 513206 | A1 | E | 57 | G06F-009/44 | Based on patent WO 9111766 |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE | | | | | |
| JP 5506527 | W | | | G06F-015/00 | Based on patent WO 9111766 |
| AU 647086 | B | | | G06F-009/44 | Previous Publ. patent AU 9173304<br>Based on patent WO 9111766 |
| US 5384697 | A | | 136 | G06F-015/46 | Div ex application US 90476031 |
| EP 513206 | B1 | E | 48 | G06F-015/16 | Based on patent WO 9111766 |
| Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE | | | | | |
| DE 69108900 | E | | | G06F-015/16 | Based on patent EP 513206<br>Based on patent WO 9111766 |
| JP 7182283 | A | | 94 | G06F-015/00 | Div ex application JP 91504862 |
| US 5444851 | A | | 137 | G06F-013/00 | Div ex application US 90476031 |
| US 5463735 | A | | 134 | G06F-013/12 | Div ex application US 90476031 |
| JP 8055051 | A | | 99 | G06F-012/00 | Div ex application JP 91504862 |
| US 5511188 | A | | 128 | G06F-015/00 | Div ex application US 90476031 |
| US 5522044 | A | | 135 | G06F-013/00 | Div ex application US 90476031 |
| US 5550980 | A | | 134 | G06F-003/00 | Div ex application US 90476031 |
| US 5598566 | A | | 135 | G06F-015/177 | Div ex application US 90476031 |

| | | | | |
|---|---|---|---|---|
| US 5884072 | A | | G06F-017/30 | Div ex application US 90476031 |
| CA 2075048 | C | E | G06F-013/12 | Based on patent WO 9111766 |
| US 6115713 | A | | G06F-011/00 | Div ex application US 90476031 |
| | | | | Div ex application US 93170086 |
| | | | | Div ex patent US 5884072 |

Abstract (Basic): WO 9111766 A

The control mode comprises a circuit for processing and storing data at multiple hierarchical levels. A circuit in the store holds features in a first software level, the features defining high level functions performed by the node, the first software level accessing software objects stored in a second software level under control of the processor. The software objects are stored in the second software level, the second software level being arranged into one database for each of one predefined software object type, each of the databases having a corresponding software object manager.

A circuit in the store holds operational unit data in the third software level, the third software level being arranged into one database for operational unit data corresponding to each predefined operational unit type, each of the databases having a corresponding hardware object manager for conditioning the operational data unit into a form required by the software object managers.

ADVANTAGE - Reduced noise.

Dwg.1/57

Title Terms: NET; WORK; FACILITY; MANAGEMENT; SYSTEM; **DETERMINE** ; EXTRACT; ATTRIBUTE; SOFTWARE; OBJECT; NEED; PREFORM; HIGH; LEVEL; FUNCTION; FEATURE; REQUEST; DATA

Derwent Class: T01; T06

International Patent Class (Main): **G06F-003/00 ; G06F-009/44 ; G06F-011/00 ; G06F-012/00 ; G06F-013/00 ; G06F-013/12 ; G06F-015/00 ; G06F-015/16 ; G06F-015/177 ; G06F-015/46 ; G06F-017/30**

International Patent Class (Additional): C06F-013/40; G05B-009/02; G05B-011/42; **G06F-009/40 ; G06F-009/445 ; G06F-009/46 ; G06F-011/08 ; G06F-013/14 ; G06F-013/40 ; G06F-015/163 ;** G06K-015/16; H04L-001/20; H04L-007/10; H04L-012/12; H04L-012/24; H04Q-003/64

File Segment: EPI

**20/5/31 (Item 28 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



008214228 **Image available**

WPI Acc No: 1990-101229/199014

**Processing data method for information handling system - has tree-structured data** hierarchy **selecting arbitrary nodes and uses them in conventional editing operations i.e. move, copy, etc.**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ); IBM CORP (IBMC )

Inventor: ARCURI A J; CADDEN W S; MANCUSO P C; MULLER F P; RIEGEL K A; SEACORD R C; STAFFORD D W

Number of Countries: 004 Number of Patents: 005

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 361737 | A | 19900404 | EP 89309356 | A | 19890914 | 199014 | B |
| EP 361737 | A3 | 19920930 | EP 89309356 | A | 19890914 | 199340 | |
| US 5493678 | A | 19960220 | US 88248835 | A | 19880926 | 199613 | |
| | | | US 94313661 | A | 19940927 | | |
| EP 361737 | B1 | 19960515 | EP 89309356 | A | 19890914 | 199624 | |
| DE 68926483 | E | 19960620 | DE 626483 | A | 19890914 | 199630 | |
| | | | EP 89309356 | A | 19890914 | | |

Priority Applications (No Type Date): US 88248835 A 19880926; US 94313661 A 19940927

Cited Patents: No-SR.Pub; 3.Jnl.Ref

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 361737 | A | E | 31 | | |

Designated States (Regional): DE FR GB
US 5493678 A 35 G06F-015/40 Cont of application US 88248835
EP 361737 B1 E 68 G06F-009/44
Designated States (Regional): DE FR GB
DE 68926483 E G06F-009/44 Based on patent EP 361737

Abstract (Basic): EP 361737 A

A set of methods for providing editing facilities in a structure editor capable of extension to syntax-directed editors. One or more **groups** of one or more **related** N-ary data elements, or nodes, for a subsequent operation are collected. One or more **groups** of one or more simply connected N-ary elements, or nodes, are then deleted from a tree; inserting subtrees of N-ary data elements, or nodes, into the tree around a selected node. One or more subtrees of N-ary data elements, or nodes are inserted into a tree connected to a selected node.

Execution by and in a structure editor generates and manipulates nodes that interconnect to form a tree structure in accordance with a set of rules, for **determining** whether a first node can connect to a second node; and, for connecting nodes to one another in and for a structure editor in which data elements or nodes are copied, deleted, moved or inserted.

USE/ADVANTAGE - **Hierarchical** data editor improved flexibility in editing operations while maintaining syntax. (31pp Dwg. No.2A/13)

Title Terms: PROCESS; DATA; METHOD; INFORMATION; HANDLE; SYSTEM; TREE; STRUCTURE; DATA; **HIERARCHY** ; SELECT; ARBITRARY; NODE; CONVENTION; EDIT; OPERATE; MOVE; COPY
Derwent Class: T01
International Patent Class (Main): **G06F-009/44 ; G06F-015/40**
International Patent Class (Additional): **G06F-015/41**
File Segment: EPI

**20/5/32 (Item 29 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


007907819 **Image available**
WPI Acc No: 1989-172931/198923
XRPX Acc No: N89-131968

**Memory reload forcing appts. in computer system - has error checker for detecting any errors which occur in process of obtaining stored information**

Patent Assignee: BULL HN INFORMATION SYSTEMS INC (HONE ); HONEYWELL BULL INC (HONE )
Inventor: LANGE R E; PORTER M G; WEBSTER M K
Number of Countries: 005 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 4831622 | A | 19890516 | US 87136301 | A | 19871222 | 198923 | B |
| EP 321793 | A | 19890628 | EP 88120529 | A | 19881208 | 198926 | |
| AU 8826322 | A | 19890622 | | | | 198933 | |
| CA 1311304 | C | 19921208 | CA 585177 | A | 19881207 | 199303 | |
| EP 321793 | B1 | 19970129 | EP 88120529 | A | 19881208 | 199710 | |

Priority Applications (No Type Date): US 87136301 A 19871222
Cited Patents: A3...9108; No-SR.Pub; US 4084236
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 4831622 | A | | 7 | | |
| EP 321793 | A | E | | | |
| EP 321793 | B1 | E | 10 | G06F-011/14 | |
| Designated States (Regional): FR GB | | | | | |
| CA 1311304 | C | | | G06F-011/14 | |

Abstract (Basic): US 4831622 A

Ina data processing system, there is included a central processing

unit (CPU) and a main memory for storing computer words, the CPU including a cache unit. In operation, the CPU requests that a computer word be fetched, the computer word to be fetched being identified by a real **address location** corresponding to a **location** where the predetermined computer word is stored in main memory. The CPU request to fetch the computer word is coupled through the cache unit such that the cache unit **determines** whether the computer word is stored within the cache unit. The cache unit comprises a cache for storing predetermined ones of the computer words.

A directory is included for storing **partial** real **address information** to a corresponding computer word stored in the cache. A **detecting** element, operatively connected to the cache and to the directory, **determines** when a hit occurs without any errors. Control logic, operatively connected to the **detecting** element, makes available to the CPU the requested computer word from the cache or the main memory when an error is **detected** as a result of attempting to obtain the computer word from the cache.

ADVANTAGE - Forces reload from main memory upon **detection** of cache memory error.

Dwg.1/3

Title Terms: MEMORY; RELOAD; FORCE; APPARATUS; COMPUTER; SYSTEM; ERROR; CHECK; **DETECT** ; ERROR; OCCUR; PROCESS; OBTAIN; STORAGE; INFORMATION

Derwent Class: T01

International Patent Class (Main): **G06F-011/14**

International Patent Class (Additional): **G06F-011/10** ; **G06F-012/08**

File Segment: EPI

**20/5/33 (Item 30 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



004546822

WPI Acc No: 1986-050166/198608

XRPX Acc No: N86-036715

**Processor system for control of video image - has control display cycle using address data supplied by** main **CPU**

Patent Assignee: TEXAS INSTR FRANCE (TEXI )

Inventor: CHAUVEL G

Number of Countries: 005 Number of Patents: 005

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| FR 2566951 | A | 19860103 | FR 8410377 | A | 19840629 | 198608 | B |
| EP 172055 | A | 19860219 | EP 85401322 | A | 19850628 | 198608 | |
| US 4799146 | A | 19890117 | US 85746422 | A | 19850619 | 198906 | |
| EP 172055 | B | 19890913 | | | | 198937 | |
| DE 3573036 | G | 19891019 | | | | 198943 | |

Priority Applications (No Type Date): FR 8410377 A 19840629

Cited Patents: EP 55168; FR 2496369; US 3973243; US 4107590; US 4225929; US 4197590

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| FR 2566951 | A | | 5 | | |
| EP 172055 | A | E | | | |
| Designated States (Regional): DE FR GB NL | | | | | |
| EP 172055 | B | E | | | |
| Designated States (Regional): DE FR GB NL | | | | | |

Abstract (Basic): FR 2566951 A

Fields of addresses are selectively interpreted to allow direct access by the central unit to a general memory (5) of the system, or to form the instructions of the video processor (2). In this case the address controls a cycle of operation.

The cycle may control the processor with high priority, or the execution of a series of operations with a low priority, on condition that the processor processes image information without intervention by

the central unit.

USE - For display of line by line scanned video image used in teletext systems and video games. (5pp Dwg.No.1/29)

Title Terms: PROCESSOR; SYSTEM; CONTROL; VIDEO; IMAGE; CONTROL; DISPLAY; CYCLE; ADDRESS; DATA; SUPPLY; **MAIN** ; CPU

Derwent Class: P85; T01; W04

International Patent Class (Additional): **G06F-013/18** ; G09G-001/02

File Segment: EPI; EngPI

**20/5/34 (Item 31 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



004074969

WPI Acc No: 1984-220510/198436

XRAM Acc No: C84-092816

**Automatic control system for injection moulding machine - allows quick correction by operator to any new moulding details**

Patent Assignee: TOSHIBA KIKAI KK (TOSI ); TOSHIBA MACHINE CO LTD (TOSI )

Inventor: BANNAI S; KAWASHIMA K

Number of Countries: 004 Number of Patents: 006

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| DE 3407040 | A | 19840830 | DE 3407040 | A | 19840227 | 198436 | B |
| JP 59158237 | A | 19840907 | JP 8332581 | A | 19830228 | 198442 | |
| GB 2161958 | A | 19860122 | GB 8418613 | A | 19840720 | 198604 | |
| US 4674053 | A | 19870616 | US 86906690 | A | 19860911 | 198726 | |
| GB 2161958 | B | 19881123 | | | | 198847 | |
| JP 92061763 | B | 19921002 | JP 8332581 | A | 19830228 | 199244 | |

Priority Applications (No Type Date): JP 8332581 A 19830228; GB 8418613 A 19840720

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 3407040 | A | | 43 | | |
| JP 92061763 | B | | 20 | B29C-045/76 | Based on patent JP 59158237 |

Abstract (Basic): GB 2161958 A

A control system for an injection moulding machine of th type including data setting means for setting moulding data corresponding to an injection operation and to a mould clamping operation of said injection moulding machine, and a control device which in response to data set in said data setting means forms an instruction signal which controls said injection and mould clamping operations, comprising a central processing unit inculding a main memory region for storing said moulding data, display means connected to said central processing unit for displaying the moulding data stored in said main memory region, the said display unit including a plurality of luminous display elements each adapted to display an item of said numerical data to a predetermined **order** of magnitude, and the data setting means including a plurality of incrementing/decrementing switches, each corresponding to a respective **order** of magnitude and disposed close to a corresponding luminous display element, for amending the displayed data item and setting the amended **data item** in the **main** memory region, and the said display means further comprising display elements connected to signal lines carrying feedback information from the moulding machine.

DE 3407040 A

Moulding machine has a control system with a data control unit for information on the injection procedure and mould closure which transmits control signals to regulate them. A central processing unit has a memory for the operational data, a display to show the contents of the memory, an adjusting device to feed numerical data into this memory, and an adjustable input switch connected to that device and close to the display.

ADVANTAGE - The system provides rapid data correction so that an

operator can quickly prepare the required data for a new injection moulding to be produced.

0/13

Title Terms: AUTOMATIC; CONTROL; SYSTEM; INJECTION; MOULD; MACHINE; ALLOW; QUICK; CORRECT; OPERATE; NEW; MOULD; DETAIL
Derwent Class: A32; P53; T06
International Patent Class (Main): B29C-045/76
International Patent Class (Additional): B22D-017/32; B29C-045/50; B29C-045/64; B29F-001/00; B29H-005/00; G05B-019/02; **G06F-015/00**
File Segment: CPI; EPI; EngPI

**20/5/35 (Item 32 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

003552402
WPI Acc No: 1983-A0595K/198301
XRPX Acc No: N83-000674

**Text processor formatting WP and DP type fields into same record - concatenates structured field and text data field type codes in memory address in selected order to form record outline**

Patent Assignee: IBM CORP (IBMC )
Inventor: BERRY R E; WILSON J H
Number of Countries: 006 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 67290 | A | 19821222 | EP 82103334 | A | 19820421 | 198301 | B |
| US 4429372 | A | 19840131 | US 81273569 | A | 19810616 | 198407 | |
| CA 1171542 | A | 19840724 | | | | 198434 | |
| EP 67290 | B | 19870304 | | | | 198709 | |
| DE 3275596 | G | 19870409 | | | | 198715 | |

Priority Applications (No Type Date): US 81273569 A 19810616
Cited Patents: 1.Jnl.Ref; EP 66674; GB 1363910; No-SR.Pub; EP 15374
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 67290 | A | E | 23 | | |
| Designated States (Regional): DE FR GB IT | | | | | |
| EP 67290 | B | E | | | |
| Designated States (Regional): DE FR GB IT | | | | | |

Abstract (Basic): EP 67290 A

The system is et up initially with a field type and heading for each field to be entered into a file, by an operator using a keyboard. A structured field of fixed length, **designated** by a field length code and a character or numeric code, is established for each structured field data code entered from the keyboard. A memory **address** pointer code is set up for text data field type codes entered from the keyboard.

The processor control system then concatenates the fixed length data processing type field codes and the test **data field** codes in the **main** memory in the **order** selected, to establish a record outline. The structured field data input is processed under control of the structured field data codes to set up structured fields in the data records. The input text data is processed under control of the text data field codes by generation of a record **address** in the disc storage device (16) at which the text data is stored. The data fields (41) and text fields addresses are concatenated into records which are stored in the disc storage.

5/6

Title Terms: TEXT; PROCESSOR; FORMAT; TYPE; FIELD; RECORD; STRUCTURE; FIELD ; TEXT; DATA; FIELD; TYPE; CODE; MEMORY; **ADDRESS** ; SELECT; **ORDER** ; FORM ; RECORD; OUTLINE
Index Terms/Additional Words: **WORD** ; **PROCESSOR** ; DATA; PROCESSOR
Derwent Class: T01
International Patent Class (Additional): **G06F-003/15** ; **G06F-009/36** ;

G06F-013/00 ; G06F-015/20
File Segment: EPI

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             CORRELATION? OR INTERCONNECTION? OR RELATE?
S2         62   (DATA OR INFORMATION)()(ITEM OR ELEMENT OR FIELD OR SINGLE-
             ()UNIT)
S3      21110   DETERMIN? OR DENOT? OR POINT()OUT OR RECOGNI? OR DECID? OR
             SPECIF? OR DESIGNAT? OR DETECT? OR ASCERTAIN OR STIPULAT?
S4      31063   POSITION OR PLACE OR ADDRESS OR LOCATION OR ORDER OR RANK?
             OR STANDING OR HIERARCH? OR GROUP?
S5       6945   ROOT? OR PARENT OR MASTER OR MAIN OR PRIMARY OR CALLING
S6       6682   DEPENDENT OR CHILD OR BRANCH OR LEAVES OR OFFSPRING OR OFF-
             ()SPRING OR SUBPROGRAM OR SUBROUTINE OR SECONDARY OR SLAVE OR
             CALLED
S7       1391   (DATA OR INFORMATION)(2N)(CHUNK? OR PORTION? OR PART? OR S-
             ECTION OR SEGMENT? OR PIECE? OR BLOCK? OR NODE? ?)
S8      35610   MODIF? OR UPDAT? OR CHANG? OR CURRENT OR EDIT? OR REVIS? OR
             REVAMP? OR REWORK? OR ALTER? OR UP()(DATING OR DATE? ?)
S9      17476   TRANSACTION? OR ACTIVIT? OR EXECUTION? OR COMPLET? OR DISC-
             HARG?
S10        25   S1 AND S2
S11         0   S3 AND S4 AND (S2 (3N) S5)
S12         0   S3 AND S4 AND S2 AND S5
S13         6   S3 AND S10
S14       564   S8 (3N) S9
S15         1   S13 AND S5
S16         0   S13 AND S6
S17        37   S14 AND S5
S18         5   S17 AND S6
S19        43   S13 OR S15 OR S17 OR S18
S20        41   S19 NOT PY>2000
S21        41   S20 NOT PD>20001121
S22        14   S21 AND S1
S23         6   S22 AND S2
File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Feb
         (c)2004 Info.Sources Inc
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               CORRELATION? OR INTERCONNECTION? OR RELATE?
S2       3022   (DATA OR INFORMATION)()(ITEM OR ELEMENT OR FIELD OR SINGLE-
               ()UNIT)
S3    5346960   DETERMIN? OR DENOT? OR POINT()OUT OR RECOGNI? OR DECID? OR
               SPECIF? OR DESIGNAT? OR DETECT? OR ASCERTAIN OR STIPULAT?
S4    4947306   POSITION OR PLACE OR ADDRESS OR LOCATION OR ORDER OR RANK?
               OR STANDING OR HIERARCH? OR GROUP?
S5    1551399   ROOT? OR PARENT OR MASTER OR MAIN OR PRIMARY OR CALLING
S6    1735009   DEPENDENT OR CHILD OR BRANCH OR LEAVES OR OFFSPRING OR OFF-
               ()SPRING OR SUBPROGRAM OR SUBROUTINE OR SECONDARY OR SLAVE OR
               CALLED
S7      84903   (DATA OR INFORMATION)(2N)(CHUNK? OR PORTION? OR PART? OR S-
               ECTION OR SEGMENT? OR PIECE? OR BLOCK? OR NODE? ?)
S8    5417648   MODIF? OR UPDAT? OR CHANG? OR CURRENT OR EDIT? OR REVIS? OR
               REVAMP? OR REWORK? OR ALTER? OR UP()(DATING OR DATE? ?)
S9    2412395   TRANSACTION? OR ACTIVIT? OR EXECUTION? OR COMPLET? OR DISC-
               HARG?
S10       764   S1 AND S2
S11         1   S3 AND S4 AND (S2 (3N) S5)
S12         1   S11 AND S7
S13     66357   S8 (3N) S9
S14       277   S3 AND S10
S15        34   S14 AND S5
S16        11   S15 AND S6
S17         8   S13 AND S10
S18        42   S12 OR S15 OR S16 OR S17
S19        40   S18 NOT PY>2000
S20        40   S19 NOT PD>20001121
S21        36   RD (unique items)
File   8:Ei Compendex(R) 1970-2004/Mar W1
         (c) 2004 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2004/Feb
         (c) 2004 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2004/Feb 27
         (c) 2004 EBSCO Publishing
File  65:Inside Conferences 1993-2004/Mar W3
         (c) 2004 BLDSC all rts. reserv.
File   2:INSPEC 1969-2004/Mar W2
         (c) 2004 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
File  94:JICST-EPlus 1985-2004/Mar W2
         (c)2004 Japan Science and Tech Corp(JST)
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Feb
         (c) 2004 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2004/Mar W1
         (c) 2004 FIZ TECHNIK
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
```

00316711 E.I. Monthly No: EI7308040141 E.I. Yearly No: EI73026464
**Title:** CORRELATION **OF BIBLIOGRAPHIC DATA ELEMENTS FOR USE IN A GENERALIZED FILE MANAGEMENT SYSTEM.**
Author: Elchesen, Dennis R.
Corporate Source: Univ of Calif, Livermore
Source: Journal of the American Society for Information Science v 24 n 1 Jan-Feb 1973 p 45-53
Publication Year: 1973
CODEN: AISJB6 ISSN: 0002-8231
Language: ENGLISH
Journal Announcement: 7308
Abstract: Data elements contained in sixteen commercial and national bibliographic data bases have been merged to forma single, correlated set. This **correlation** , part of a generalized file management system developed at LLL, has led to several improvements in the laboratory's **activities** in **current** awareness and information retrieval: standardization of the system command language, increased uniformity in output display formats, a mechanism for selective extraction and transfer of records among data bases, and simplification of the programming required for data conversion. The **correlation** is compatible with most existing and proposed **data - element** standards and may prove useful in any information system employing multiple bibliographic data bases. 27 refs.
Descriptors: *INFORMATION SCIENCE--*Information Retrieval; INFORMATION SERVICES; INFORMATION RETRIEVAL SYSTEMS
Identifiers: DATA BASES
Classification Codes:
901 (Engineering Profession)
90 (GENERAL ENGINEERING)

**21/5/6 (Item 1 from file: 35)**


01650771 ORDER NO: AAD98-35969
**REGISTER ALLOCATION ISSUES IN EMBEDDED CODE GENERATION (INSTRUCTION SCHEDULING, TRANSFORMATION INTERACTION)**
Author: KOLSON, DAVID JAMES
Degree: PH.D.
Year: 1998
Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, IRVINE (0030)
Chair: ALEXANDRU NICOLAU
Source: VOLUME 59/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 2850. 176 PAGES
Descriptors: COMPUTER SCIENCE
Descriptor Codes: 0984

In conventional compilation, register allocation--the mapping of program variables to the registers of the target architecture--plays an important role in the performance of application code. In particular, for load/store architectures, good register allocation is exceedingly important as all operands to instructions, in this type of architecture, must be contained within the register set.

Typical processors selected as the core unit or core processor for an embedded system closely resemble the load/store or RISC-type of architecture, and, thus, conventional register allocation techniques are applicable in the generation of code for an embedded processor. However, architectural features of the core processor, features designed to reduce core size/cost and/or are **specific** to the target application area for improved performance--such as disjoint register files and/or requirements that operands to particular instructions reside in specialized registers--complicate the register allocation process. This, coupled with the time-sensitive nature of typical embedded applications necessitates high-quality register allocation.

This thesis demonstrates that beyond the **specific** task of register allocation, there are subtle issues **related** to register allocation that must be addressed in order to generate high quality code for an embedded application. Issues investigated **relate** to promotion of data items from **secondary** memory to **primary** memory, global guiding of transformation interaction, integrating register allocation and instruction scheduling and optimal allocation to loops.

This thesis presents a technique which eliminates redundancies found in array accessing over iterations of a loop. Essentially this technique allocates a register to an array **data item** that is used frequently over a loop or within a window of iterations of a loop, thus promoting it from the **secondary** memory to the **primary** memory.

Transformation interaction within a parallelizing compiler has been studied relatively little, however, it remains an important issue in generating high quality code. This thesis presents a paradigm for integrating transformations so that transformations are applied based upon global knowledge instead of local knowledge, leading to better resource/register allocation and the development of better scheduling/allocation heuristics.

One strategy which integrates register allocation and instruction scheduling performs register allocation "on-the-fly" by a technique **called** renaming. This has the disadvantage of adding many copy instructions to the code which adversely affects performance and this thesis presents a post-scheduling technique to unroll loop code and re-allocate registers to eliminate these copy instructions.

Finally, the issue of optimal register allocation to loops is addressed. Register allocation has been extensively studied with proposed solutions being heuristic in nature. However, for embedded applications which contain time-critical loops and/or loop kernels, an optimal allocation is necessary. This thesis presents a technique for optimal allocation of registers to loop code.

**21/5/7 (Item 2 from file: 35)**


01639938 ORDER NO: AAD98-28622
**MAXIMIZING THROUGHPUT OF RELIABLE BULK NETWORK TRANSMISSIONS (NETWORK BANDWIDTH)**
Author: BYERS, JOHN W.
Degree: PH.D.
Year: 1997
Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, BERKELEY (0028)
Chair: CHRISTOS PAPADIMITRIOU
Source: VOLUME 59/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1731. 109 PAGES
Descriptors: COMPUTER SCIENCE
Descriptor Codes: 0984

We study combinatorial optimization and on-line scheduling problems which arise in the context of supporting applications which transmit bulk data over high-speed networks. One of our **primary** objectives in this thesis work is to formulate appropriate theoretical models in which to develop and analyze efficient algorithms for these problems--models which reflect both the experience of network architects, the design of network protocols, and contributions of theoretical research.

We first consider the optimization problem of maximizing the utilization of a shared resource, network bandwidth, across a set of point-to-point **connections**. A feasible solution to this allocation problem is an assignment of transmission rates to the **connections** which does not violate the capacity constraints of the network **links**. The **connections** and routers which are responsible for establishing this allocation must do so with incomplete information and limited communication capabilities. We develop a theoretical model which addresses these considerations and study the tradeoff between the quality of the solution we can obtain and the distributed running time. Our **main** theoretical

indexing, and retrieving system, its **primary** use in the navy is for maintaining libraries of data elements and standards information, generating **data element** catalogs, and retrieving selected data. Ras is sufficiently flexible for processing data on entities other than data elements. It is used for document cataloging and reports control. The system was desinged to facilitate interchange of programs and data files among different makes or types of computers. Ras files are modular, allowing separate organizations to independently develop their own **data element** libraries and yet be able to share data or files, by automated means, with other ras **data element** libraries. These interacting **data element** libraries provide a basis for a nayywide **data element** library system. The data stored in **data element** files are retrieval for **specific** analysis, design, and data standardization purposes. The data are indexed by assigned classifications and by keywords. Logical associations of these indexes complement a query capability for retrieval of the data. Ras has been useful in analysis to stem the proliferation of redundant data elements, and has been an aid in the identification of potential candidates for date element standardization at higher levels.

Classification Codes and Description: 7.01 (Planning, Administration)
Main Heading: Libraries and Information Services

**21/5/20 (Item 5 from file: 202)**
DIALOG(R)File 202:Info. Sci. & Tech. Abs.


0902451
Parent child **center management information system. system documentation.**
Book Title: Volume Ii: Mis Data By Management Information Requirement. Report Abt-73-63; Hew-os-72-94. 1973 May 31. Abt Associates, Inc., Cambridge, Massachusetts. 251 P. Edrs: Ed-085 879; Hc $9.87, Mf $0.65. Work Sponsored By Division Of Research And Evaluation, Chi
Corporate Source: ABT ASSOCIATES, INC.
Publication Date: 1973
Language: English
Document Type: Book Chapter
Record Type: Abstract
Journal Announcement: 0900

The basic objectives of this volume are to present a detailed overview of the system document flow, display the **relationship** of individual output reports to particular key management decisions, trace the input document data elements required to meet the information requirements of six key management decisions, and trace the data document element flow from the weekly **parent child** center (pcc) records to the quarterly input reports. Flowcharts are used to display the input-output **relationship** of each document, the person constituting the information source, and the users of the reports. Three levels of decisions making are identified relating to each of the six key management decisions, and performance indicators for **specific** contributing decisions are **related** to particular data elements in the records and reports. Input documents are **specified** in which various key data elements appear, and finally each **data element** is traced as it appears on each input document.

Classification Codes and Description: 7.00 (General Aspects)
Main Heading: Libraries and Information Services

**21/5/21 (Item 6 from file: 202)**
DIALOG(R)File 202:Info. Sci. & Tech. Abs.


0901675
**Context protection and consistent control in data base systems. (part i).**
Book Title: Osu-cisrc-tr-73-9. Contract N00014-67-a-0232-0022. 1974

February. Computer And Information Science Reserch Center, Ohio State University, Columbus. Iv + 28 P. 34 Illus. 10 Ref. See Isa 74-1866/s.
Author(s): Hsiao, D K; Kerr, D S; Nee, C J
Publication Date: 1974
Language: English
Document Type: Book Chapter
Record Type: Abstract
Journal Announcement: 0900

Although the capability of the access control mechanisms to regulate field, record, and file security has been **recognized** as indispensible in advanced data secure systems, there is the need of more subtle protection and refined control which we shall call context protection and consistent control. Context protection enables the same data unit (field, record, or file) to be protected differently, in different contexts. For example, the same **data field** may be protected differently in different records. The difference may be **determined** by the manner in which the fields and records are being accessed. Consistent control is concerned with the problem that when new data units based on the old data units of the data base are created by the user, these data units must be protected consistently in the sense that their access attributes must be generated automatically and must conform with the access attributes of the old data units. Our study has begun to show that both context protection and consistent control can be enforced by means of certain built-in **relations** among the data units involved. These **relations** under certain conditions can reveal any violation of context protection and consistant control. Here our first step is to identify those **relations** which are basic and **primary** to the contextual **relations** . It is hoped that by proposing these basic and **primary relations** , more elaborate contextual **relations** among data elements can be defined for protection reasons. Furthermore, a method of enforcing the protection can be facilitated by these basic and **primary relations** . Necessary and sufficient conditions under which a protection violation will occur due to contextual security constraints must be identified. With these conditions and the method, it will be possible to propose a data definition language for **specifying** data base protection requirements and to develop an access control mechanism for enforcing the requirements.

Classification Codes and Description: 7.00 (General Aspects)
Main Heading: Libraries and Information Services

**21/5/22 (Item 7 from file: 202)**
DIALOG(R)File 202:Info. Sci. & Tech. Abs.


0900397
**The program data analysis plan for colorado special education.**
Book Title: Contract Oec-0-71-1930(284). 1972. Scientific Educational Systems, Inc., Silver Spring, Maryland. 688 P. Edrs: Ed-074 649; Hc $23.03, Mf $0.65. Work Sponsored By Division Of Intergovernmental Statistics, National Center For Educational Statistics, Washing
Author(s): Darby, Charles A, Jr, Et Al
Publication Date: 1972
Language: English
Document Type: Book Chapter
Record Type: Abstract
Journal Announcement: 0900

Presented is a program data analysis plan (pdap) for the special education program in colorado designed to serve as a model for other state education agencies in the development of their own analysis plans. The pdap is a combination of three major components: a list of program management information requirements in the form of questions, the set of data elements necessary, and the **specification** of data analysis procedures to **link** the **data element** to the information requirement. Management questions are said to be those questions asked by managers to gather information

to know how the type of network interacts with the performance of the system. The authors suggest a general framework based on: database size , method of concurrency control, input rate of transactions, number of copies of each **data item** , and three types of network (wide area network, LAN with non **deterministic** channel access protocol, and LAN with **deterministic** channel access protocol). The **main** output parameters are response time, and messages. An analysis of the results, together with conclusions are presented. (7 Refs)

Subfile: C

Descriptors: concurrency control; distributed databases; local area networks; performance evaluation; protocols

Identifiers: network type incidence; wide area network; simulation techniques; performance; distributed database systems; concurrency control; transactions; LAN; access protocol

Class Codes: C6160B (Distributed DBMS); C5620L (Local area networks); C5620W (Other networks); C5640 (Protocols); C5670 (Network performance)

**21/5/29 (Item 6 from file: 2)**

DIALOG(R)File 2:INSPEC



03821214 INSPEC Abstract Number: C91018880

**Title: Autonomous decentralized steel production process control system**

Author(s): Suzuki, Y.; Mori, K.; Hori, S.; Kasashima, H.; Itoh, T.; Mori, J.; Torikosi, H.

Author Affiliation: Syst. Dev. Lab., Hitachi Ltd., Kawasaki, Japan

Conference Title: Distributed Computer Control Systems 1989. Proceedings of the Ninth IFAC Workshop p.63-7

Editor(s): Motus, L.; Narita, S.

Publisher: Pergamon, Oxford, UK

Publication Date: 1990 Country of Publication: UK xi+133 pp.

ISBN: 0 08 037870 6

Conference Sponsor: IFAC

Conference Date: 26-28 Sept. 1989 Conference Location: Tokyo, Japan

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A steel production control system needs the requirements of fault tolerance, online expandability and online maintainability. The autonomous decentralized steel production process control system has been developed. It has the feature that every subsystem can manage itself and coordinate with the other subsystems through a proposed **data field** , in which data circulates and the subsystem selects whether to receive the data on the basis of its content. In this system, there exists no **specific** manager and no **master / slave relation** structure among the subsystems. The effectiveness of this system test mechanism is provided by its applications to real-time control systems. (6 Refs)

Subfile: C

Descriptors: decentralised control; fault tolerant computing; multivariable control systems; process computer control; production control ; steel industry

Identifiers: steel production process control; fault tolerance; online expandability; online maintainability; real-time control systems

Class Codes: C7420 (Control engineering); C3350C (Metallurgical industries)

**21/5/30 (Item 7 from file: 2)**

DIALOG(R)File 2:INSPEC



03441820 INSPEC Abstract Number: C89056770

**Title: Datatalk: a simple tool for data analysis**

Author(s): Newsted, P.R.

Author Affiliation: Calgary Univ., Alta., Canada

Journal: Interface: The Computer Education Quarterly vol.10, no.4 p.35-40

Subfile: C
Descriptors: information retrieval systems
Identifiers: information retrieval; automatic classification; search strategies; linear; nonlinear
Class Codes: C7250 (Information storage and retrieval)

**21/5/32 (Item 1 from file: 94)**
DIALOG(R)File 94:JICST-EPlus


05054688 JICST ACCESSION NUMBER: 02A0036595 FILE SEGMENT: JICST-E
**Investigation research report on the standardization of the medical treatment for health information field. The 1999 fiscal year. ( Agency of Industrial Science and Technology $ ).**
Med. Inf. Syst. Dev. Center
Hoken Iryo Joho Bunya no Hyojunka ni kansuru Chosa Kenkyu Seika Hokokusho. Heisei 11 Nendo, 2000, PAGE.265P, FIG.2, TBL.3
JOURNAL NUMBER: N20012339B
UNIVERSAL DECIMAL CLASSIFICATION: 681.3.02:61
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication
ABSTRACT: On the medical treatment for health **information field**, they investigated standardization trend promoted in **main** standardization organization, medical institution and industrial world in European and American countries, and they examined the possibility of the cooperation with our country to the international standardization. In this fiscal year, they carried out the investigation center in respect of standardization trend and ISO/TC215 of medical treatment for health field in European and American countries. They have composed this report of following items. 1) Standardization trend of the medical treatment for health **information field** in European and American countries ( electronicization medical care and terminology, health card in Europe, dispersion technique object technology CORBA in ASTM ). 2) It has been composed of standardization trend ( representative and domestic standard standard and standard, individual domestic standard and standard, international conference **relation** ) of the medical treatment for health **information field** in the home.
DESCRIPTORS: medical information processing system; medical information processing; standardization; Japan; USA; Europe; health insurance system; ISO Standard
BROADER DESCRIPTORS: information system; computer application system; system; information processing; treatment; modification; East Asia; Asia; North America; Americas; medical administration system; institution; international standard; standard( **specification** ); standard
CLASSIFICATION CODE(S): JE15030Q

**21/5/33 (Item 2 from file: 94)**
DIALOG(R)File 94:JICST-EPlus


00255336 JICST ACCESSION NUMBER: 86A0304140 FILE SEGMENT: JICST-E
**Cartographic database system.**
NISHI YUJI (1); HANAOKA NAOYUKI (1); YANO YUSAKU (1); TSU HIROJI (1); OGAWA KATSURO (1)
(1) Agency of Industrial Science and Technology, Geological Survey of Japan
Rep Geol Surv Jpn, 1986, NO.265, PAGE.19-67, FIG.11, REF.7
JOURNAL NUMBER: F0340AAW ISSN NO: 0366-5542 CODEN: CCHHA
UNIVERSAL DECIMAL CLASSIFICATION: 662.997:550.361
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: Cartographic database system is constructed to manipurate cartographic data by computer on equal bases with geothermal information in the SIGMA system. The original data are from the Digital National Land Information files provided by the Geographical Survey Institute. The data volume is reduced by editing the original file to appropriate data density for plotting base maps. The items included in the database are shore line, lake and marsh, river, administrative boundary, road, railway and elevation. These data are filed mesh by mesh. The **secondary** mesh is employed as an unit mesh. The **secondary** mesh system covers whole of Japan on unified rule defined by the Japan Industrial Standard. The logical structure of the database is hierachical. The **secondary** mesh code is placed at the top as a **root** segment. The **segment** of each **data item** comes under the **root segment** . Line **data** have two **segments** . The **link** segment ( **parent** ) files the attribute of a line, and the auxiliary point segment records the coordinate of a series of points from the start point to the end. Database retrieval is supported by menu system. Retrieval conditions are defined by two parameters of areal extent and **data item** . The areal extent is **designated** as a set of **secondary** meshs. Data presentation is possible on graphic displays and pen plotters through interactive software system. The cartographic data presentation system is a integral part of a map presentation system for geothermal information. Map is not only the most basic form of geothermal data presentation but also the very first step to **relate** different kinds of information for a comprehensive geothermal model.(author abst.)
DESCRIPTORS: database; computer file; map(atlas); DBMS; **hierarchical** structure; graph description; geothermy; tree structure; software design; interactive processing
BROADER DESCRIPTORS: audiovisual material; nonbook material; resource(document); computer application system; system; structure; graph processing; information processing; treatment; heat; design
CLASSIFICATION CODE(S): LB03040B

**21/5/34 (Item 1 from file: 95)**


01119145 E97062309299
**Zentrale Rechnereinheit kommuniziert ueber CAN**
Lockmann, A; Rennerich, M; Acksel, M
Benke Instrument & Elektro, Reinbek, D; Janz Computer, Paderborn, D
etz Elektrotechnik und Automation, v118, n12, pp6-7, 1997
Document type: journal article Language: German
Record type: Abstract
ISSN: 0948-7387

ABSTRACT:
Im Rahmen der Neukonzeption eines Analysegeraetes der Firma Benke Instrument & Elektro in Reinbeck ist in Zusammenarbeit mit der Firma Janz Computer in Paderborn ein CAL-basierendes (CAL, CAN Application Layer) CAN-System (CAN, Control Area Network) aufgebaut worden. CAN als serielles Feldbussystem mit Echtzeitfaehigkeit ist durch ISO 11898 normiert. Innerhalb der CAN-Systeme werden keine Stationen bzw. Knoten adressiert, sondern priorisierte Nachrichten (Messages) verschickt. Nach einer Charakterisierung des Analysegeraetes fuer Raffinerieanlagen und seiner Kommunikationsstruktur werden Aufbau und Funktion des CAN-Systems beschrieben. CAN wird genutzt, um die zentrale Rechnereinheit mit den raeumlich getrennt aufgebauten Probenaufbereitungseinrichtungen zu verbinden. Die zentrale Rechnereinheit besteht im wesentlichen aus einem Industrie-PC, der mittels einer intelligenten PC-Einsteckkarte (CAN-PC Interface-Set) der Firma Janz einen CAN-Bus zur Verfuegung stellt. Mit dem CAN-PC-Interface-Set erhaelt der PC die benoetigte CAL- **Master** -Funktionalitaet, ist jedoch gleichzeitig auch ein CAL- **Slave** -Knoten. Die Protokollsoftware CAL wird direkt auf dem intelligenten Modul Vmod-Ican2 auf der PC-Karte abgewickelt. CAL unterstuetzt in seiner vollstaendigen Ausbaustufe die folgenden Dienste: (1) CMS: CAN-based Message

**Specifications** , (2) NMT: Network Management, (3) DBT: Identifier Distribution und (4) LMT: Layer Management. Der CAN-Knoten an der Probenaufbereitung ist in Form der CAN-Bigbox realisiert, mit deren digitalen Ein- und Ausgaben Ventile und Pumpen geschaltet und diverse Produktparameter uebertragen werden. Die CAN-Bigbox als leistungsfaehiger CAN-Knoten basiert auf dem MC68332 und kann durch den vorhandenen Modulbus-Steckplatz um spezielle Funktionen, etwa digitale und analoge E/A oder Motorcontroller erweitert werden.

DESCRIPTORS: BUS SYSTEMS; OPEN SYSTEMS **INTERCONNECTION** ; LAN--LOCAL AREA NETWORKS; DATA NETWORKS; OPEN SYSTEMS; DISTRIBUTED COMPUTING; PROCESS AUTOMATION; GUIDING TECHNIQUE; MEASURED DATA TRANSMISSION; CHEMICAL ANALIZER; COMMUNICATION PROTOCOLS; MANUFACTURER; PRODUCT **INFORMATION** ; **FIELD** BUS
IDENTIFIERS: Analysegeraet; CAN-Anbindung; Raffinerieanlage

**21/5/35 (Item 2 from file: 95)**
DIALOG(R)File 95:TEME-Technology & Management


00915698 F95086036953
**Experience with a proposed teleradiology system for digital mammography**
(Erfahrungen mit der Planung eines Teleradiologiesystems fuer digitale Mammografie)
Saulnier, ET; Mitchell, RJ; Abdel-Malek, AA; Dudding, KE
GE Corporate Research and Development, Schenectady, USA
Medical Imaging 1995, PACS Design and Evaluation: Engineering and Clinical Issues, Proc., San Diego, USA, Feb 28 - Mar 2, 19951995
Document type: Conference paper Language: English
Record type: Abstract

ABSTRACT:
The size and resolution of digital mammograms are among the most challenging to support in a teleradiology system, which offers significant improvement in efficiency and effectiveness. This paper will describe a teleradiology architecture developed for use with digital mammography by GE Corporate Research and Development in collaboration with Massachusetts General Hospital under National Cancer Institute (NCI/NIH) grant number R01 CA60246-01. The telemammography architecture is intended to consist of a **main** mammography diagnostic site serving several remote screening sites. As patient exams become available, they are forwarded by an image server to the diagnostic site over a WAN communications **link** . A radiologist views a patient exam, interprets it, and then relays a report back to the technician. A **secondary** future scenario consists of mobile units which forward images to a remote site, which then forwards them to the **main** diagnostic site. The testbed architecture is based on the Digital Imaging and Communications in Medicine (DICOM) standard. The current DICOM definition does not provide an **information element** that is **specifically** tailored to mammography, so the DICOM **secondary** capture data format for the mammography images is used. Experience with the testbed will be described, as will performance analysis **related** to selection of network components needed to extend this architecture to clinical evaluation. Recommendations will be made as to the critical areas for future work.

DESCRIPTORS: PACS--PICTURE ARCHIVING AND COMMUNICATION SYSTEMS; COMMUNICATION SYSTEMS; SYSTEM ARCHITECTURE; DATA TRANSMISSION; DISTRIBUTED COMPUTING; DATA FORMAT; CLINICAL APPLICATIONS; TEST FACILITIES; COMPUTERISED PICTURE PROCESSING; DATA TELEPROCESSING; RADIOGRAPHY; TELERADIOLOGY
IDENTIFIERS: DICOM STANDARD; PACS--(PICTURE ARCHIVING AND ...); Teleradiologie; Mammografie; DICOM-standard; Netzwerk

**21/5/36 (Item 3 from file: 95)**
DIALOG(R)File 95:TEME-Technology & Management

```
Set     Items   Description
S1    8147890   RELATION? OR CONNECTION? OR ASSOCIATION OR LINK OR LINKS OR
             CORRELATION? OR INTERCONNECTION? OR RELATE?
S2       6412   (DATA OR INFORMATION)()(ITEM OR ELEMENT OR FIELD OR SINGLE-
             ()UNIT)
S3    6042197   DETERMIN? OR DENOT? OR POINT()OUT OR RECOGNI? OR DECID? OR
             SPECIF? OR DESIGNAT? OR DETECT? OR ASCERTAIN OR STIPULAT?
S4   10668100   POSITION OR PLACE OR ADDRESS OR LOCATION OR ORDER OR RANK?
             OR STANDING OR HIERARCH? OR GROUP?
S5    3800675   ROOT? OR PARENT OR MASTER OR MAIN OR PRIMARY OR CALLING
S6    3017523   DEPENDENT OR CHILD OR BRANCH OR LEAVES OR OFFSPRING OR OFF-
             ()SPRING OR SUBPROGRAM OR SUBROUTINE OR SECONDARY OR SLAVE OR
             CALLED
S7     433386   (DATA OR INFORMATION)(2N)(CHUNK? OR PORTION? OR PART? OR S-
             ECTION OR SEGMENT? OR PIECE? OR BLOCK? OR NODE? ?)
S8    9315190   MODIF? OR UPDAT? OR CHANG? OR CURRENT OR EDIT? OR REVIS? OR
             REVAMP? OR REWORK? OR ALTER? OR UP()(DATING OR DATE? ?)
S9    6512903   TRANSACTION? OR ACTIVIT? OR EXECUTION? OR COMPLET? OR DISC-
             HARG?
S10      1017   S1 (S) S2
S11         3   S3 (S) S4 (S) (S2 (3N) S5)
S12         0   S11 (S) S7
S13    161472   S8 (3N) S9
S14       292   S3 (S) S10
S15        31   S14 (S) S5
S16        15   S15 (S) S6
S17        15   S13 (S) S10
S18        49   S11 OR S15 OR S16 OR S17
S19        41   S18 NOT PY>2000
S20        39   S19 NOT PD>2001121
S21        34   RD (unique items)
File  15:ABI/Inform(R) 1971-2004/Mar 24
         (c) 2004 ProQuest Info&Learning
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 647:CMP  Computer Fulltext 1988-2004/Mar W2
         (c) 2004 CMP Media, LLC
File 275:Gale Group Computer DB(TM) 1983-2004/Mar 25
         (c) 2004 The Gale Group
File 674:Computer News Fulltext 1989-2004/Mar W2
         (c) 2004 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2004/Mar 24
         (c) 2004 The Dialog Corp.
File 624:McGraw-Hill Publications 1985-2004/Mar 24
         (c) 2004 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2004/Mar 25
         (c) 2004 The Gale Group
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 613:PR Newswire 1999-2004/Mar 25
         (c) 2004 PR Newswire Association Inc
File  16:Gale Group PROMT(R) 1990-2004/Mar 25
         (c) 2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 553:Wilson Bus. Abs. FullText 1982-2004/Feb
         (c) 2004 The HW Wilson Co
```

**21/5,K/9 (Item 9 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


00273520 85-13954
**Building Logical Data Models: A Practitioner's Guide**
Johnston, Thomas
Computerworld v19n13 PP: In Depth 7-16 Apr 1, 1985 CODEN: CMPWAB ISSN: 0010-4841 JRNL CODE: COW
DOC TYPE: Journal article LANGUAGE: English LENGTH: 7 Pages
SPECIAL FEATURE: Charts

ABSTRACT: The construction of logical data models is important to the construction of **relational** database management systems (DBMS) because of the increased use of nonprocedural languages. Each data element in a logical data model must be well-defined and unique. The use of foreign keys is a hallmark of **relational** DBMSs. Steps to be followed when constructing a logical data model include: 1. Enter a sample of representative user views, or **master** files, into text editor files. 2. Exclude all implementation- **specific** data elements. 3. Identify and name foreign keys and define **relationships** among data groups. 4. Name and categorize all non-key data elements and ensure that all data groups are in the 3rd normal form described in data normalization theory. 5. Test the newly constructed model against each significant user view to **determine** if additions or revisions are necessary. The analyst should remember to select a manageably small set of views that nonetheless compromises most of the data in the model.

DESCRIPTORS: Data base management systems; Relational data bases; Systems development; Data; Models; Computer programming
CLASSIFICATION CODES: 5240 (CN=Software & systems)

ABSTRACT: The construction of logical data models is important to the construction of **relational** database management systems (DBMS) because of the increased use of nonprocedural languages. Each **data element** in a logical data model must be well-defined and unique. The use of foreign keys is a hallmark of **relational** DBMSs. Steps to be followed when constructing a logical data model include: 1. Enter a sample of representative user views, or **master** files, into text editor files. 2. Exclude all implementation- **specific** data elements. 3. Identify and name foreign keys and define **relationships** among data groups. 4. Name and categorize all non-key data elements and ensure that all data...

... described in data normalization theory. 5. Test the newly constructed model against each significant user view to **determine** if additions or revisions are necessary. The analyst should remember to select a manageably small set of...

**21/5,K/10 (Item 10 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)


00208388 83-19949
**Nonsensitive Data and Approximate Transactions**
Sinha, Mukul K.
IEEE Transactions on Software Engineering vSE-9n3 PP: 314-322 May 1983
ISSN: 0098-5589 JRNL CODE: ISO

DOC TYPE: Journal article LANGUAGE: English LENGTH: 9 Pages
SPECIAL FEATURE: Diagrams References

ABSTRACT: A consistent database satisfies a set of assertions called strong consistency restraints. The **relations** among data items are expressed in equality terms. The data items **related** by strong consistency constraints are called sensitive data because a change to a sensitive **data item** also presents changes in all relative sensitive data. Nonsensitive data items are computed periodically by the user from sensitive and nonsensitive data items. In fact, an approximate **transaction modifies** only the nonsensitive data items which do not have to satisfy strong consistency constraints and which provide results only up to a degree of approximation. This approach improves the performance in situations of frequent transaction conflicts, and the methodology provides users and managers with mechanisms to control the computation's precision, preserving the data items' qualitative characteristics.

DESCRIPTORS: Data bases; Transactions; Solutions; Consistency; Constraints; Conflicts; Data base management systems
CLASSIFICATION CODES: 5240 (CN=Software & systems)

ABSTRACT: A consistent database satisfies a set of assertions called strong consistency restraints. The **relations** among data items are expressed in equality terms. The data items **related** by strong consistency constraints are called sensitive data because a change to a sensitive **data item** also presents changes in all relative sensitive data. Nonsensitive data items are computed periodically by the user from sensitive and nonsensitive data items. In fact, an approximate **transaction modifies** only the nonsensitive data items which do not have to satisfy strong consistency constraints and which provide...

**21/5,K/11 (Item 1 from file: 647)**


01022154 CMP ACCESSION NUMBER: WIN19940601S1885
**Mobile Mail Keeps Remote Users in the Loop** (E-Mail Software)
Hailey Lynne McKerry
WINDOWS MAGAZINE, 1994, n 506 , 076
PUBLICATION DATE: 940601
JOURNAL CODE: WIN LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: New Products
TEXT:

You can send and receive messages over a wide area network, modem, LAN or via a wireless **connection** with cc:Mail Mobile for Windows 2.0. This portable version of the LAN-based e-mail system is aimed at mobile users who only occasionally connect to a LAN. With it, you can automatically filter incoming messages based on a variety of criteria such as author, date or size to access impor- tant messages without having to sort through all of them. The package includes icon- based location profiles, which can be altered with a single mouse click, to connect from often visited destinations. More than 40 location icons (hotel, home, office, cities, countries) ship with the product; you can also add your own icons (a corporate logo, for example). Pick lists guide you in setting the communications type, serial port parameters, baud rates and dialing options for each location. The program supports long-distance access and credit-card **calling** . You can select as many as eight communications methods per location, from among such protocols as IPX/SPX (NetWare),

TCP/IP (UNIX ) and X.25. cc:Mail Mobile also supports **connections** via ISDN, PBX, direct **connection** , RAM Mobile Data, cellular and landline modems. The package includes scripts for more than 70 popular modems and supports background operation. A preview function lets you gather information about incoming messages, such as estimated transmission time, subject, priority, author, size and attachment names. cc:Mail Mobile offers built-in support for reconciliation when switching between LAN and remote operation. It moves messages to the computer on departure from the LAN and resynchronizes your LAN mailbox when you reconnect. cc: Mail Mobile 2.0 Price: $195 Contact: Lotus Development Corp., 800-448- 2500, 415-961-8800 Circle Inquiry 559 Notework Gets an (Inter)Face Lift In the past, the Notework LAN e-mail interface wouldn't have won any beauty contests, but ON Technology has upgraded the program with a Windows interface. According to ON Technology, the prior interface was transitional, to provide support for both DOS and Windows users. In the new version, a button bar has been added to the pop-up menus. The bar includes icons for such commands as open, create, reply and discard. There is also a Put Away function that allows you to look at e-mail later without having to discard it or place it in a folder. Notework 3.0 offers Windows' Clipboard support, scroll bars, dialog boxes, resizable windows and the ability to select your own fonts. The Speed Read function automatically tags new messages and displays the first message upon sign in. You can display incoming and out- going messages side by side. Notework 3.0 Price: Engine, $199; Ten-user package, $590; upgrades from 2.0, $19.95 per user; or from 1.0, $29.95 per user Contact: ON Technology, 617-374-1400, fax 617-374-1433 Circle Inquiry 560 Access UNIX E-Mail with a Windows Laptop Frequent UNIX e-mail users can read and respond to their mail off-line and off- site with PC or laptop using Portable Mail for Windows. The software can download UNIX mail files so you can display, save, answer and manipulate mail using the Windows GUI. The interface includes an icon bar, accelerator keys for most menu operations, a graphical customization window and a status bar. When you get back to your UNIX workstation, Portable Mail can upload mail changes and send replies, delete requested messages, compose multiple messages simultaneously and store flagged messages in mail folders. All off-line actions are automatically reconciled. You can create a remote post office on any Windows computer, then transfer files with transfer software or via a diskette. You can perform mail functions, including printing and saving messages, off-line without logging onto your workstation. Portable Mail is compatible with BSD mail and SVR4 mail, and offers cut-and-paste to and from other Windows applications. Portable Mail Price: $195 Contact: Qualix Group Inc., 800-245-8649, 415-572-0200 Circle Inquiry 561 Fax Software/column Get Control of Faxes on the LAN FaxWorks Pro LAN, a network-independent fax software package for small- to medium-sized LANs, lets networked Windows users send, receive and manage their faxes. The program does not require a dedicated fax server, and is compatible with several popular peer-to- peer LANs, including Micro- soft Windows for Workgroups, Artisoft LANtastic, and Novell NetWare and NetWare Lite. The package includes all the features of SofNet's FaxWorks Pro. Because it has full OCR functionality, FaxWorks Pro LAN does not require you to retype received faxed documents. It has personal and shared telephone books, logs and file cabinets. FaxTracker, the program's document retrieval and storage tool, brings up a document log that lists scheduled and concluded faxes. FaxTracker can also display the results of a search and provides **specific** fax information, such as the file name, type and size. FaxWorks Pro LAN features automatic Group 4 compression and supports up to eight fax lines per fax server. FaxWorks Pro LAN supports Class 1, Class 2 and CAS-compatible fax modems (such as Hayes JT Fax, Brooktrout and GammaLink fax modems), and lets you send and receive faxes through electronic mail packages, such as Lotus cc:Mail, Microsoft Mail or any MHS e-mail package. FaxWorks Pro LAN Price: Two -user pack, $199;/P 10-user pack, $599; 50-user

pack, $1,799 Contact: SofNet Inc., 800-FAX-WORKS, 404-984-8088 Circle Inquiry 562 Device Lets Fax Machines Handle OCR Trio Information Systems has bundled its DataFax+ Windows 4.1 faxing software with its FaxConverter, a pocket- sized device that converts a fax machine into a scanner or local printer. With the FaxConverter, you can scan a document into your PC or print documents on your fax machine. DataFax+'s optical character **recognition** (OCR) engine transforms scanned documents into editable text. In the new version of DataFax+, the OCR engine features improved ligature **recognition** to allow it to distinguish among letters that touch each other, according to Trio Information Systems. Once faxes are OCR-processed, they can be imported into a variety of application formats, including .RTF, ASCII, Lotus 1-2-3, Ami Pro, Excel 2.0, Word for Windows 2.0 or 6.0, WordPerfect 5.0 or 5.1, and Type Reader 1.0. The DataFax software includes a Captive QuickFax icon which lets you clip data from an application, add a fax address and send it. The Smart Dialing feature lets you add country, area and long distance dialing codes to your dialing directory. Also included are a cover page editor, which lets you create language- **specific** forms in 20 languages, and a Fax Management feature to log incoming and outgoing faxes. DataFax+ 4.1 and FaxConverter Price: $129 Contact: Trio Information Systems Inc., 800-880-4400 919-846-4990 Circle Inquiry 563 RightFAX Supports Binary File Transfer Binary file-transfer support, which allows files to be faxed as editable documents, has been added to RightFAX 3.5 fax server software. The software lets multiple users on Novell NetWare, Microsoft LAN Manager and IBM OS/2 LAN Server-based networks send and receive faxes from individual workstations. RightFAX 3.5 incorporates direct inward dial, dual tone multi- frequency, OCR, and manual and channel auto routing technologies. The software complies with VIM 2.0 and can operate from within Lotus Notes. With the optional RightFAX E-mail Gateway ($995), RightFAX 3.5 lets you send and receive faxes directly from e-mail systems. RightFAX includes a drag-and-drop feature that allows you to send files as either fax documents or binary data files by dragging them onto an icon or window. With the RightFAX OCR module, available for $1,195, RightFAX routes incoming faxes on the basis of key words found on the fax's cover page. You can build routing tables to direct the fax to the recipients with one of several keywords associated with that user. If the fax server is busy, an alternate workstation can be used to perform fax routing. RightFAX supports several GammaLink and Brooktrout fax boards, as well as the Brooktrout TR-114 fax cards. RightFAX 3.5 Price: $995 (license for a single channel, unlimited users); upgrades from RightFAX 3.0, $99 Contact: RightFAX, 602-327- 1357, fax 602-321-7456 Circle Inquiry 564 Pim/Contact Managers Manage Contacts and Tasks with One Program Time Planner Deluxe 2.0 bridges the gap between PIMs (for tracking names and addresses) and project management systems (for tracking project deadlines and resources). The program is designed for task-oriented users who need reports that compute project times and costs and offer a time-line view of task duration (in working or elapsed hours). TPD supports priorities, alarms, recurring events and drag-and-drop scheduling. You can set constraints (hours per day and days per week) or time increments (five minutes or longer), as well as view a graph of allocated costs over time. The address book accommodates three addresses and six telephone numbers per entry, and includes an autodialer. You can also place information in folders and assign a keyword to a folder for automatic assignment to the appropriate folder on the basis of the note's text. Time Planner Deluxe 2.0 Price: $129; until June 30, $59 Contact: H.M. Hinsch & Co., 800-952-3530, 718-237-1977 Circle Inquiry 568 Commence Keeps Customer Contacts Current The latest upgrade of the Commence contact manager is highlighted by more than 15 new features, including e-mail interfaces and a more powerful search capability. Version 2.1 retains familiar features, including the address book, appointment calendar, note keeper, to-do and task list manager and travel expense tracker. The new version adds the ability to

send e-mail using Commence's Agent technology. Messages can be sent via popular e-mail messaging protocols, such as MAPI (Microsoft Mail), VIM (Lotus's cc: Mail and Notes) and CMC . The fuzzy logic global search capability can find information even if you're unsure of the spelling. Version 2.1 includes a report formatter for altering the width and height of items on a report, or for resizing rows and columns with the mouse. Commence can now play sound files or video clips when a predefined situation occurs. The new version also adds user interface features, such as direct appointment entry in the calendar view, maintenance of window size and position, and integrated letter writing support for Word 6.0 and WordPerfect 6.0. Commence 2.1 Price: $395; upgrades, $29.95 to $69.95 depending on version Contact: Jensen-Jones Inc., 800- 688-7080, 908-530-4666 Circle Inquiry 569 Software Ties Up Contact Management Loose Ends CrossTies 1.0 uses patent-pending object- oriented technology to manage information. The program lets you assign a name of up to 256 characters in length to an **information item** , then **link** that information to other types of data and view all **related** items on a single screen. You can drag and drop information between **related** elements (people, documents or activities) or use the QuickLink button to associate different types of information. CrossTies can store and track information about people in 30 preformatted fields, or in a notes field. You can define templates to prefill fields with standard information and place frequently used objects on the "Shelf'' for quick access. The Trail button allows you to access your most recent work. The scheduling module notifies you of upcoming events and prints daily, weekly and monthly calendars. A built-in viewer lets you view documents from a variety of programs. CrossTies 1.0 Price: $149 Contact: CrossTies Software Corp., 800-955- TIES, 214-407-9996 Circle Inquiry 570 Business Productivity Tools Automate Repetitive Document Production HotDocs helps you build intelligent templates using Word (versions 2.0 and 6.0), WordPerfect ( 5.2 and 6.0) and Ami Pro (3.0) documents. The templates allow you to create forms that automatically prompt the user to fill in the blanks. The program automates the production of repetitive, routine word processing documents from business letters to loan agreements by letting you identify text that will change with each new document ( such as dates, names, adverbs or pronouns) and replace it with a variable. To assemble a document using a finished template, you simply click on a button. The template asks questions based on the user- defined variables and inserts the new information. You can **specify** formats for the variables, so that information is displayed in the correct format automatically, no matter how it is entered. The program includes options to replace pronouns (his/her) with the proper gender , and can conditionally replace text. HotDocs 1.0 Price: $99; introductory price, $49 Contact: Capsoft Development Corp., 800-500- DOCS, 801-375-6562 Circle Inquiry 571 Software Simplifies Employee Evaluations Two new software packages offer help to managers faced with the difficult task of conducting and documenting employee performance reviews. Austin-Hayne's Employee Appraiser using a " writing by example" approach, presents a series of prompts to help managers through the appraisal process, offering suggestions on topics , such as initiative, job knowledge and communication. The program lets managers work with and edit over 400 professionally written phrases and paragraphs developed by human resource and labor law experts. Employee Appraiser can scan the completed appraisal for inappropriate language. When it finds potentially troublesome language , the software offers possible alternatives. The program's Manager's Notebook helps document important events on a day- to-day basis for inclusion in later reviews. Avantos Performance Systems' Review Writer uses a Quick Build mode that leads the review writer through questions that gather key information and a Document mode for more experienced users. Users click on icons to get help in **specific** areas. The program can import goal and performance information from Avantos' ManagePro, an employee management program.

Review Writer can also incorporate comments on objectives and performance recorded in ManagePro. The program can suggest actual text, prompting users to agree or disagree with statements about a performance area or skill. The writer can select all, some or none of the generated review text. The program includes predefined sample templates for general job titles, such as managers, team leaders and customer service agents. Its AdvisorScan searches for inflammatory or "dangerous" language and offers alternative wording. Employee Appraiser 1.0 Price: $129 Contact : Austin-Hayne Corp., 800-809-9920, 415-610-6800 Circle Inquiry 572 Review Writer 1.0 Price: $129 Contact: Avantos Performance Systems, 800-AVANTOS, 510-654-4600 Circle Inquiry 573 Write Better Business Letters Instead of staring at your blank word processing screen wondering what to write, let the LetterWorks series of letter templates get you started. Using the program's ViewWorks front end, included with all LetterWorks products, you can select a sample letter , then use the program's hints to help you produce professional documents for different situations. ViewWorks' Find function searches documents for keywords or phrases, and the built-in word processor lets you customize a selected document, then send the text to your own word processor for further editing. Business LetterWorks includes 400 letters covering customer **relations** , credit and collections, personnel **relations** , internal communications, community service, and sales and marketing. Legal LetterWorks includes 165 legal forms for business and personal use, such as wills and living wills; real estate (leases, sales and mortgages); borrowing and lending; copyrights and trademarks; powers of attorney; starting, buying or selling a business ; and operating a corporation. Business LetterWorks 1.1, Legal LetterWorks 1.1 Price: $79.95 each Contact: Round Lake Publishing Co. Inc., 203-438-5255/P Circle Inquiry 574 FINANCIAL SOFTWARE Managing Your Money Has Gotten Simpler MECA Software has introduced a Windows version of its Managing Your Money (MYM), to help you manage your banking, investments and taxes. The new version adds a SmartDesk graphical navigator. The SmartDesk appears on-screen as a picture of a traditional office setting, complete with desk, bookcase, file cabinet and windows. You can access any program feature by clicking on items in the picture. SmartDesk comes with preset defaults that **link** standard Windows applets, such as Calendar, Calculator and Notepad, to the appropriate SmartDesk icons. Or you can configure the program to launch other applications, such as Lotus Organizer and Microsoft Word, through the SmartDesk. The MYM checkbook allows you to enter a check on either an on-screen check register or a graphical representation of a check. The tax portion of the program includes all the **primary** tax forms and schedules. Funds that you record in the check register as taxable are auto- matically recorded in the correct tax schedule. You can open multiple tax windows to view current tax status and perform what-if scenarios. MYM's Investment Analysis window lets you look at the status of your investments. Views include simple and annual appreciation and yield; MYM also tracks cost, price changes, risk levels, liquidity and other investment data. The SmartPlanner analysis function helps users think through financial questions like Should I buy or lease? or How much life insurance do I need? Advice on each sit - uation comes from financial guru Andrew Tobias. Managing Your Money Price: $79.95 Contact: MECA Software, 800-820-7457, 203-256-5000 Circle Inquiry 584 Priortize, Consolidate and Reduce Your Debts Do you feel as though you'll never make a dent in your debts? Getting organized might help. The Debt Analyzer lets you produce debt elimination and loan consolidation schedules, much like the ones generated by credit counselors and banks. The debt elimination schedule prioritizes each debt, and creates a monthly payment schedule. When one debt is paid off, the payment amount previously dedicated to that debt is applied to the highest priority debt. The loan consolidation schedule feature combines all your current debt information into one new loan. Interest rates are configurable as daily, monthly, APR (annual percentage rate) or annual effective rate. The Debt Analyzer lets

you create and print reports, charts, schedules and summaries and includes a filing system with multiple scenarios for individuals, relatives, friends and clients. The Debt Analyzer Price: $25 Contact: Insight Software Solutions, 801-295-1890, fax 801-299-1781 Circle Inquiry 585 Pay Your Employees Electronically DacEasy Instant Payroll from DacEasy Inc. and Instinctive Payroll from SVS Co. Inc. let you automate your payroll ledger. Instant Payroll automatically calculates federal, state and local taxes for hourly, salaried and commissioned employees. The AutoPay function processes a payroll for multiple frequencies and multiple pay types simultaneously. Instant Payroll also helps you track payment history, vacation and sick time. The program lets you create an unlimited number of earnings, deductions and liabilities. You can create 941 worksheets and print W-2 forms as well as state and quarterly worksheets. Instinctive Payroll calculates three types of hourly rates : regular time, overtime and double-time. It also handles salary, commissions by percentage and commission plus base pay. The software allows you to process bonus pay and electronically file direct deposits. It can also be configured for multiple pay periods and allows unlimited benefits, deductions, additions and tips. Tips can be recorded by allocated tips or tips in addition to gross pay. Instinctive Payroll also lets you issue and track payroll advances. Instinctive Payroll prints information on preprinted forms on tractor- fed or laser-printer checks. It also includes electronic tax filing to transfer tax deposits directly to the bank. DacEasy Instant Payroll Price: $49.95 Contact: DacEasy Inc., 800-DAC-EASY, 214-248-0205 Circle Inquiry 586 Instinctive Payroll Price: $59.95 Contact: SVS Co. Inc., 800-787-7287, 208-336-2555 Circle Inquiry 587 HELP AUTHORING SOFTWARE Word Add-On Automatically Generates Help Files HelpBreeze 1.6, a Windows help authoring add-on, has been upgraded to include a Topic Wizard. You **specify** a list of topics, choose a format, and the Topic Wizard tool automatically structures and formats your help file. It expands your list into fully formatted topics and inserts them into the help document. Topic titles, context strings, keywords and browse sequences are created. The add-on works with Microsoft Word 2.0 or 6.0. Version 1.6 provides point-and-click support for all Windows 3.1 Help system features (such as **secondary** windows and help macros). HelpBreeze also offers auto- mated two-way conversion between electronic and printed versions of documents, and support for creating context-sensitive help. Slide Show, a distributable DLL, allows you to include animation, slide shows with VCR-style controls, sound and 256-color graphics within help files. The Slide Show add-on requires a Windows resource editor, such as Borland Resource Workshop or Microsoft AppStudio. HelpBreeze 1.6 Price: $279 Contact: Solutionsoft, 408-736-1431, fax 408-736-4013 Circle Inquiry 581 Make Help Files the Easy Way Doc-To-Help 1.6, a new version of the help authoring tool, includes Hyperformance Tools utilities that assist in the creation, viewing and distribution of hypertext help files. The Doc-To-Help Navigator, one of the new tools, displays the structure of a help file in expandable outline form. You can use it to browse the help file, then jump to any topic in the file through a hypertext **link** . You can also select and print multiple topics from the Navigator. Other Hyperformance tools allow you to drag and drop help files into Visual Basic, and add 256-color bitmaps and watermarks to your help files. Any bitmap can be made into a background watermark and displayed, either centered or tiled, in the Help window. Included in the package is a Help System Setup Wizard that allows you to create setup disks for distribution of standalone help systems. It walks you through a seven-step process for building an install program. Doc-To-Help 1.6 Price: $295 Contact: WexTech Systems Inc., 800-WEX-TECH, 212-949-9595 Circle Inquiry 582 Create Help Files in Word or Ventura Publisher MasterHelp lets you generate Windows help files from text created in Microsoft Word or Corel Ventura Publisher. The result is a finished help file that includes hypertext jumps, pop-up screens, **secondary** windows and browse sequences. MasterHelp also

automatically creates Microsoft Multimedia Viewer files. You control the design of your help files by **specifying** template fonts, graphics, tables and indentation. The program automatically creates a table of contents in a **secondary** window, as well as a pop-up window with an overview of the entire document or the current chapter. The Help search facility is loaded with all the topics in your document. An interactive hypertext editor with special macros lets you add extra hypertext jumps. You can convert topic names contained in the text into hot buttons that jump to that topic. You can also create "see also" pop-up listings on additional topics and tag words for inclusion in the search table. MasterHelp Price: $495 Contact: Performance Software Inc., 804-794- 1012, fax 804-794-0210 Circle Inquiry 583 AND Rerun Stat Analyses Without the Hassles STATGRAPHICS Plus, a statistical graphics-analysis tool, lets you save and rerun procedures and analyses without having to create macros or specialized code. The StatFolio feature saves file and variable names, graphics settings and analysis options so that the same analysis can be run on a new data set. The program includes a DDE **link** to Excel, Lotus 1-2-3 and Quattro Pro. Changes in a linked spreadsheet are auto- matically reflected in all output and graphics. You can customize your graphics with different fonts, colors and type sizes. Add-on modules (priced at $399 each) provide simple and multiple regression; ANOVA; one-, two- and multiple-variable analyses; distribution fitting; and tabulation and cross tabulation. STATGRAPHICS Plus Price: $649 Contact: Manugistics Group Inc., 800-592 -0050, 301-984-5123 Circle Inquiry 588 Keep Yourself Informed the Windows Way If you're tired of finding a soggy newspaper on your front porch, maybe you should look to your computer for the latest scoop instead. Mainstream Newscast for Windows, a wireless information service, broadcasts real-time news on FM radio (in a dozen major U.S. cities) and by satellite (in more remote areas) to a receiver attached to the PC's serial port. Mainstream Newscast software receives and displays stories from the news services to which you subscribe. More than 150 information services including Associated Press, Reuters, Market News Service, PR Newswire, Business Wire and Federal News Service are available, with subscription prices starting at $10 per month. You can view the incoming news live, collect it in the background, or cut and paste it into e-mail (depending on the terms of the news service). You can set up to 32 search criteria on topics such as information technology and sort the news you receive into different windows according to topic. Mainstream Newscast Price: Software, $995; FM receiver, $495; satellite dish, $990 Contact: Mainstream Data Inc., 801-584-2800, fax 801-584-2831 Circle Inquiry 589 Are You Sick of Flying Toasters? Create a Windows multimedia slide show or a custom screen saver with ForShow 1.0 from Bourbaki Inc. The authoring program runs in a DOS-based drag-and-drop visual programming environment. The resulting screen saver can run either as a single DOS executable file or under Bourbaki's A Touch of Chaos Windows, which comes with ForShow. The program supports a variety of formats, including .BMP, .GIF and .PCX. It also handles .WAV and .VOC sound files, Autodesk Animator (.FLI and .FLC) files and its own fractal file format for graphics. You can set transition effects including venetian blinds, diagonal, drip, explode, spiral, split, weave and wipe delays. The speed and direction of many effects can be **specified** , and loops can be added. Once your presentation is done, you can run complete shows or selected portions. ForShow also provides an icon-based visual file management system for organizing slide-show elements. ForShow 1.0 Price: $79 Contact: Bourbaki Inc., 800-289-1347, 208-342-5849 Circle Inquiry /headline 590 Development Tool Sports Enhanced VB **Links** Develop client/server applications faster with SQLWindows 4.1, a new version of the SQL application development environment. Version 4.1 adds seamless support for Visual Basic custom controls (.VBX files), Windows classes and business graphics. The upgrade offers improved operation with Oracle 7.0 server databases. You can access Oracle-stored procedures for queries and updates and use the Oracle array interface.

SQLWindows also offers tighter **links** to two leading computer-aided software engineering tools: Popkin System Architect and LBMS Systems Engineer. The corporate edition of SQLWindows includes SQLWindows Designer, ReportWindows, SQLBase Engine for Windows, Quest and TeamWindows. The Standard edition includes everything in the Corporate edition except Quest and TeamWindows. SQLWindows 4.1 Price: Corporate edition, $3,795; Standard edition, $2,295 Contact: Gupta Corp., 800-876-3267, 415-321-9500 Circle Inquiry 591 Low-Cost Board Captures Video and Audio The Logitech MovieMan board lets you add video and audio capture to your existing system without breaking the bank. Priced at $299, the board captures video at a standard television rate of 30 frames per second and compresses it on the fly for hard disk storage. Video input to the board can be from any analog camera, VCR or cable box that complies with NTSC, the North American TV standard, or with the European PAL standard. MovieMan also supports the Digital Video Connector Interface to allow digital camera output to be fed directly to the board. It supports Microsoft Video for Windows and can play .WAV audio files. The board is modular so that it can be upgraded by adding a more powerful compression engine. MovieMan ships with the Adobe Premiere multimedia authoring system, as well as Logitech's FotoTouch color image-editing software for single-frame editing and Logitech's EasyClip, a capture utility that allows for drag-and-drop integration of captured images into documents created by OLE-compatible devices. MovieMan Price: $299 Contact: Logitech Inc. 800-231-7717, 510-795-8500 Circle Inquiry 592 Color Monitor Features High Res, Low Price The VisionMaster 17, a flat -square-tube 17-inch color monitor with a 0.26 dot pitch and 1280x1024 resolution noninterlaced at 80Hz, is priced at $799. The monitor is Energy Star and Swedish MPRII compliant. At full power, the unit draws 110 watts; power consumption drops to 6 watts in sleep mode. Power management can be set to kick in after 5, 15, 30 or 60 minutes of nonuse. Display controls, which allow user's to make 14 different adjustments to the monitor including raster rotation, pincushion and trapezoid (phase) control and color calibration to match Pantone and device output color samples, are mounted at the front of the monitor. A bezel-mounted LCD displays the current graphics resolution. The VisionMaster 17 monitor features an integrated tilt and swivel base and comes with a three-year warranty as well as an antiglare, antistatic coating. VisionMaster 17 Price: $799 Contact: Idek Iiyama North America, 800-394-4355, 215-957-6543 Circle Inquiry 593 Multimedia Kits Include CD-ROM Library Procom Technology's Multimedia CD Station and Multimedia Station Pro upgrade kits include a double- speed CD-ROM drive with a 320ms average access time and a 300KBps data -transfer rate. A Media Vision 16-bit sound card with 16-bit stereo recording and playback at 44kHz is also included. The CD Station includes four CD-ROM titles (Compton's Interactive Encyclopedia, Dune, Curse of Enchantia and Photo Factory) and Fujikon SP-404 speakers. The Station Pro comes with eight CD-ROMs (Compton's, Dune, Photo Factory, the Mayo Clinic Family Health Book, PowerTools for Windows, Soundstations for Windows, The Guided Tour of Multimedia and Where in the World is Carmen Sandiego?) and Fujikon CP-668 amplified and shielded speakers. It includes 64KB continuous flow cache memory and a built-in tray load mechanism. Both kits, which are available in external or internal versions, feature SCSI interfaces and are Windows 3.1 compatible. Multimedia CD Station, Multimedia Station Pro Price: CD Station, $399 (internal), $465 (external); Station Pro, $555 ( internal), $625 (external) Contact: Procom Technology Inc., 800-800- 8600, 714-852-1000 Circle Inquiry 594

TEXT:

You can send and receive messages over a wide area network, modem, LAN or via a wireless 1connection with cc:Mail Mobile for Windows 2.0. This portable version of the LAN-based e-mail...

...baud rates and dialing options for each location. The program supports long-distance access and credit-card **calling** . You can select as many as eight communications methods per location, from among such protocols as IPX/SPX (NetWare), TCP/IP (UNIX ) and X.25. cc:Mail Mobile also supports **connections** via ISDN, PBX, direct **connection** , RAM Mobile Data, cellular and landline modems. The package includes scripts for more than 70 popular modems...

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...information and a Document mode for more experienced users. Users click on icons to get help in **specific** areas. The program can import goal and performance information from Avantos' ManagePro, an employee management program. Review...

...the text to your own word processor for further editing. Business LetterWorks includes 400 letters covering customer **relations** , credit and collections, personnel **relations** , internal communications, community service, and sales and marketing. Legal LetterWorks includes 165 legal forms for business and...

...access any program feature by clicking on items in the picture. SmartDesk comes with preset defaults that **link** standard Windows applets, such as Calendar, Calculator and Notepad, to the appropriate SmartDesk icons. Or you can...

...register or a graphical representation of a check. The tax portion of the program includes all the **primary** tax forms and schedules. Funds that you record in the check register as taxable are auto- matically...1.6, a Windows help authoring add-on, has been upgraded to include a Topic Wizard. You **specify** a list of topics, choose a format, and the Topic Wizard tool automatically structures and formats your...

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...Bourbaki Inc., 800-289-1347, 208-342-5849 Circle Inquiry /headline 590 Development Tool Sports Enhanced VB **Links** Develop client/server applications faster with SQLWindows 4.1, a new version of the SQL application development...

...Oracle-stored procedures for queries and updates and use the Oracle array interface. SQLWindows also offers tighter **links** to two leading computer-aided software engineering tools: Popkin System Architect and LBMS Systems Engineer. The corporate...

**21/5,K/14 (Item 3 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)


01987275 SUPPLIER NUMBER: 18692642 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Object meets data.**
Linthicum, David S.
DBMS, v9, n10, p72(4)
Sep, 1996
ISSN: 1041-5173 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3240 LINE COUNT: 00305

ABSTRACT: Object-oriented (OO) programming has not become the dominant development paradigm despite the ability of OO databases to handle binary content. The relational model still dominates most organizations, with OO being deployed in specialized areas. The result is model mixing, which requires developers to learn how to use a non-object DBMS from their OO development environments. Although this is often done by doing traditional programming from the OO environment, there is a more efficient method. It is possible to communicate with relational databases as a virtual persistent object, by using an object-to-relational translation and mapping layer. In addition, newer RDBMS products will store information as objects. This option still provides the benefits of object-oriented programming, while still retaining access to legacy data.
SPECIAL FEATURES: illustration; chart
DESCRIPTORS: Technology Information; Technology Overview; Object-Oriented Programming; DBMS

FILE SEGMENT: CD File 275

... This displays the relational database as persistent objects inside the development environment.

Usually this means making a **connection** between a **data element** that exists in an object and a **data element** that exists in a **relational** database. You can map a single object directly to a single table, several tables to an object, or several objects to a single table. Once the mapping process is **complete** , any data **modified** in a mapped object will automatically modify any linked tabs or tables.

At the heart of this...

**21/5,K/17 (Item 6 from file: 275)**



01605808 SUPPLIER NUMBER: 13974585 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Classy DDE. (classes to simplify adding Microsoft Windows' Dynamic Data Exchange protocol to applications) (part 2) (Tutorial)**

Kenworthy, Edward

EXE, v7, n11, p42(6)
May, 1993
DOCUMENT TYPE: Tutorial ISSN: 0268-6872 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1100 LINE COUNT: 00083

ABSTRACT: Users can employ classes to simplify making Microsoft Windows' Dynamic Data Exchange (DDE) part of their applications. Users must **decide** what they want the classes to do, as well as how the DDE objects and their **parent** will communicate. The simplest way to make the objects and **parent** communicate is to use the public member functions. To terminate a DDE conversation, users can employ the CDDE class. The CDDEClient class establishes the conversation and handles the GetItem() function the **parent** calls to get data from the server. The GetItem takes up to three parameters, the first of which is the name of the **data item** and is required. The data's clipboard format and a time-out value are optional. The CDDEServer class checks to ensure that the topic and application that the client requests match those that the **parent** supports. The CDDEServer class also handles the messages clients post when they need data over cold **links** .

SPECIAL FEATURES: illustration; program
COMPANY NAMES: Microsoft Corp.--Products
DESCRIPTORS: Data Management; Object-Oriented Programming; Tutorial; Client/Server Architecture; GUI; Program Development Techniques
SIC CODES: 7372 Prepackaged software; 3577 Computer peripheral equipment, not elsewhere classified
TICKER SYMBOLS: MSFT
TRADE NAMES: Microsoft Windows (GUI)--Design and construction
OPERATING PLATFORM: MS Windows
FILE SEGMENT: CD File 275

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**21/5,K/34 (Item 1 from file: 160)**
DIALOG(R)File 160:Gale Group PROMT(R)


02547612
**CASE Software Mkts (U.S.): The Standalone PC CASE Tool Software Market: Forecast For The Total Standalone PC CASE Tool Software Market: Revenues**
Research Studies-MIRC September 21, 1989 p. VI-4+

Entity- **relationship** (ER) diagrams are used to describe data structures, according to this research study, 'CASE Software Mkts (U.S.).' Each **data element** , its attributes and **relationships** to the other elements, are defined in the ER diagram. The ER diagram typically serves as the data model for database and file design. While the DFD models the functional aspects of the system and the ER diagram serves as a data model, the state-transition diagram (STD) models the system's behavior as affected by time. STDs are commonly used when designing on-line and real-time systems. Although these CASE tools are designed to meet the immediate graphic needs of the user, their usefulness is particularly evident in the revision and maintenance phases of the software development process. The automation of the diagramming process saves the analyst time. When iterations occur, the design does not have to be **completely** reconstructed, only **updated** . Those packages capable of linking the DFD to the data dictionary will then automatically make the necessary changes in the data dictionary. Revisions in requirements and specifications have a critical impact on the ability to maintain an up-to-date system. Therefore, CASE tools, which allow the user to document requirements changes as they appear in the revised specifications, will be looked upon favorably by the analyst, designer and programmer. PC CASE tools have also gone one step further to feature error-checking mechanisms which ensure model consistency, so that systems changes that effect functional models will also be revised in the respective data models. The error-checking feature may be embodied in the following concepts of model consistency: 1) DFD and the data dictionary; 2) DFD and the process specifications; 3) process specifications and the data dictionary; 4) ER and the DFD and process specifications; 5) ER and the data dictionary; and 6) the DFD and the state-transition diagram.

The price of the 211-page study is $1,495.



PRODUCT: *Engineering, Mfg Software Pkgs (Micro) (7372430)
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COUNTRY: *United States (1USA)

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